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CITY OF SOMERVILLE

MASSACHUSETTS

ANNUAL REPORTS

1921



SOMERVILLE PRESS PRINT  
1922



## REPORT OF THE CITY AUDITOR.

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OFFICE OF THE CITY AUDITOR,  
January 18, 1922.

To the Honorable, the Mayor, and the Board of Aldermen of  
the City of Somerville.

Gentlemen: — In accordance with the requirements of Section 3 of Ordinance Number 44, I herewith submit a report of the expenditures and receipts during the year 1921, showing in detail the appropriations and expenditures, and the receipts from each source of income, also a statement of the funded debt and temporary loans together with a balance sheet showing the assets and liabilities at the close of the financial year.

It seems appropriate at this time to mention the financial condition of the city as regards funded debt.

The total funded debt on January 1, 1918, was \$1,757,500., a per capita debt of \$19.42. No five-year loans have been authorized since 1917 and the total amount borrowed on funded debt account for all purposes in the years 1918 to 1921 inclusive was \$140,000. During this period maturities amounting to \$894,000. were paid from tax levy, making a net reduction in the outstanding debt of \$754,000, or 42.9%. The total funded debt December 31, 1921 was \$1,003,500. or \$10.79 per capita.

This reduction of debt has, of course, a direct effect upon the borrowing capacity of the city. This has increased from \$242,121.85 on January 1, 1918 to \$1,156,063.28 on December 31, 1921.

Maturity obligations in 1918 were \$251,500. and interest charges on funded debt \$66,412.50. Corresponding figures for 1922 are, — maturities \$169,500. and interest charges \$38,731.25.

Respectfully submitted,

HOWARD E. WEMYSS,

*City Auditor.*

BALANCE SHEET, DECEMBER 31, 1921.

Revenue Account.

ASSETS.		LIABILITIES.	
Cash:		Temporary Loans . . . . .	\$585,000 00
In Banks and Offices . . . . .	\$139,245 05	Unexpended balances:	
Advance to Poor Dept. . . . .	100 00	Income of Trust Funds . . . . .	3,141 71
Advance, Soldiers' Benefits . . . . .	100 00	Appropriations . . . . .	5,181 25
		Tailings . . . . .	291 65
		Revenue from Taxes, Supple-	
		mentary Warrants . . . . .	823 65
Accounts Receivable:		Revenue Reserved when Collected:	
Tax 1921 . . . . .	\$449,077 38	Departmental Bills Receivable	20,822 44
Taxes 1920 . . . . .	2,917 34		
Taxes 1919 . . . . .	572 17	Overlay, Reserved for Abatements:	
Taxes 1918 . . . . .	143 52	Levy of 1921 . . . . .	\$6,310 83
Taxes 1917 . . . . .	772 20	Levy of 1920 . . . . .	1,988 16
Excise Tax, Ship Owners . . . . .	21 66	Levy of 1919 . . . . .	326 29
Special Assessments 1921 . . . . .	20,056 31	Levy of 1918 . . . . .	143 52
Special Assessments 1920 . . . . .	1,362 89	Levy of 1917 . . . . .	772 20
Departmental Bills Receivable	20,822 44		
Comm. of Mass. Soldiers'			
Benefits, 1921 . . . . .	11,823 50		
Water Dept. Accounts 1921 . . . . .	26,283 99		
			\$9,541 00
Tax Titles . . . . .	\$533,853 40	Reserve Fund, Surplus from	
Real Estate Liens . . . . .	2,478 51	Overlays . . . . .	\$3,356 45
Grade Crossings . . . . .	193 88	Excess and Deficiency . . . . .	60,273 37
Commonwealth of Massachusetts	427 30		
	12,033 38		
	<u>\$688,431 52</u>		<u>\$688,431 52</u>



**BALANCE SHEET. — Continued.**

**Non-Revenue Accounts.**

Cash in Banks and Offices . . . . .		Unexpended Balances:	
	\$21,989 15	Appropriations . . . . .	\$21,989 15

**Municipal Indebtedness.**

Net Bonded Debt . . . . .	\$1,003,500 00	Loans within statutory debt limit:	
		City Bonds . . . . .	\$249,500 00
		Municipal Bonds . . . . .	15,000 00
		Sewer Bonds . . . . .	199,000 00
		Highway Bonds . . . . .	257,000 00
		Bridge Bonds . . . . .	28,000 00
		Public Building Bonds . . . . .	230,000 00
		Emergency Loan Bonds . . . . .	5,000 00
			<hr/>
			\$983,500 00

		Loans outside statutory debt limit:	
		Sewer Bonds . . . . .	12,000 00
		Met. Park Assessments Bonds . . . . .	8,000 00
			<hr/>
			20,000 00

	<hr/>		
	\$1,003,500 00		
			<hr/>
			\$1,003,500 00

**Trust Funds.**

Investments:		Trust Funds:	
Cash and Securities . . . . .	\$27,396 24	School Funds . . . . .	\$5,300 00
		Library Funds . . . . .	20,414 58
		Poor Funds . . . . .	1,681 66
			<hr/>
			\$27,396 24

\$27,396 24

## CASH STATEMENT, DECEMBER 31, 1921.

## REVENUE.

		Receipts.	
General:—			
Taxes . . . . .		\$2,746,989	95
Corporation, Bank and Income Taxes . . . . .		285,823	25
Licenses and Permits . . . . .		12,063	52
Fines and Forfeits . . . . .		10,894	92
Vocational Schools . . . . .		13,132	41
Americanization . . . . .		3,115	26
Smith-Hughes Fund . . . . .		2,845	75
County of Middlesex, Dog Licenses . . . . .		1,939	18
Excise Tax, Ship Owners . . . . .		347	24
Caroline G. Baker Fund . . . . .		300	00
Miscellaneous . . . . .		1,143	82
		<hr/>	
			\$3,078,595 30
Special Assessments . . . . . \$55,671 14			
Departmental:—			
General Government . . . . .		7,627	22
Protection of Persons and Property . . . . .		1,868	16
Health and Sanitation . . . . .		19,521	56
Highways . . . . .		6,007	82
Charities . . . . .		40,886	98
Soldiers' Benefits . . . . .		11,426	75
Schools . . . . .		14,512	02
Libraries . . . . .		1,871	11
Baths . . . . .		1,151	95
Sale of Land . . . . .		5,121	69
Miscellaneous . . . . .		500	00
		<hr/>	
			\$110,495 26
Water Department Accounts . . . . .			266,787 39
Temporary Loans . . . . .			1,927,000 00
Interest on deposits, taxes etc. . . . .			25,277 64
Refunds . . . . .			3,456 77
			<hr/>
Total receipts . . . . .			\$5,467,283 50
Balance at beginning of period . . . . .			223,207 73
			<hr/>
			\$5,690,491 23

## CASH STATEMENT, DECEMBER 31, 1921. — Continued.

## Payments.

Cash Advance, Soldiers' Benefits . . . . .	\$100 00	
Appropriations . . . . .	2,826,350 66	
Caroline G. Baker Trust Fund . . . . .	300 00	
Trust Funds Income . . . . .	3,553 97	
Temporary Loans . . . . .	1,967,000 00	
Commonwealth of Massachusetts . . . . .	534,544 57	
County of Middlesex . . . . .	130,844 89	
Tax Titles . . . . .	3,232 28	
Real Estate Liens . . . . .	12 36	
Tellers Overs and Shorts . . . . .	42 58	
Refunds . . . . .	1,121 12	
	<hr/>	
Total Payments . . . . .		\$5,467,102 43
Transfer to Non-Revenue . . . . .		84,143 75
Balance on hand . . . . .		139,245 05
		<hr/>
		\$5,690,491 23

## NON-REVENUE.

## Receipts.

Funded Debt Loan . . . . .	\$50,000 00	
Redemption of Tax Titles . . . . .	2,941 38	
	<hr/>	
Total Receipts . . . . .		\$52,941 38
Transfer from Revenue . . . . .		84,143 75
Balance at beginning of period . . . . .		71,708 70
		<hr/>
		\$208,793 83

## Payments.

Appropriations . . . . .	\$183,863 30	
Redemption of Tax Titles . . . . .	2,941 38	
	<hr/>	
Total Payments . . . . .		\$186,804 68
Balance on hand . . . . .		21,989 15
		<hr/>
		\$208,793 83

## Summary.

Total Revenue Receipts . . . . .		\$5,467,283 50
Total Non-Revenue Receipts . . . . .		52,941 38
		<hr/>
Total balance at beginning of period . . . . .		\$5,520,224 88
		294,916 43
		<hr/>
		\$5,815,141 31
		<hr/>
Total Revenue Payments . . . . .		\$5,467,102 43
Total Non-Revenue Payments . . . . .		186,804 68
		<hr/>
Total balance on hand . . . . .		\$5,653,907 11
		161,234 20
		<hr/>
		\$5,815,141 31



CITY AUDITOR.

DEPARTMENTAL BILLS.

Departmental Accounts, Pledged to Revenue.	Balance	Committed	Total to	Collected	Uncollected
	Jan. 1, 1921	1921	Collect	and abated	
Police Department . . . . .	\$118 31	\$94 23	\$212 54	\$212 54	.....
Engineering Department . . . . .	.....	51 00	51 00	51 00	.....
Maintenance Police Buildings . . . . .	.....	1,000 00	1,000 00	1,000 00	.....
Fire Department . . . . .	.....	86 05	86 05	86 05	.....
Health Department . . . . .	559 60	603 64	1,163 24	796 10	\$367 14
Contagious Hospital . . . . .	3,368 36	8,221 96	11,590 32	8,732 98	2,857 34
Inspection of Milk . . . . .	23 00	646 00	669 00	638 00	31 00
Sanitary Department . . . . .	377 20	1,958 00	2,335 20	2,314 20	21 00
Highway Maintenance . . . . .	351 77	5,524 93	5,876 70	5,758 36	118 34
Sidewalks Maintenance . . . . .	.....	10 00	10 00	10 00	.....
New Sidewalks . . . . .	129 53	.....	129 53	129 53	.....
Maintenance Highway Buildings . . . . .	.....	260 00	260 00	260 00	.....
Poor Department — Miscellaneous . . . . .	12,967 42	34,644 88	47,612 30	33,505 67	14,106 63
Poor Department — City Home . . . . .	3,815 14	3,963 99	7,779 13	6,781 09	998 04
School Contingent . . . . .	3,049 07	15,355 75	18,404 82	16,225 87	2,178 95
Maintenance School Buildings . . . . .	50 15	1,646 63	1,696 78	1,552 78	144 00
	\$24,809 55	\$74,067 06	\$98,876 61	\$78,054 17	\$20,822 44

WATER DEPARTMENT ACCOUNTS (REVENUE).

	Commitments	Abatements	Collections (net)	Balance
Metered Rates . . . . .	\$218,857 65	\$148 67	\$192,424 99	\$26,283 99
Annual Rates . . . . .	38,716 75	4,490 83	34,225 92	.....
Additional Rates . . . . .	1,147 10	352 89	794 21	.....
Service Assessments . . . . .	5,408 19	.....	5,408 19	.....
Maintenance Bills . . . . .	6,838 40	465 33	6,373 07	.....
	<u>\$270,968 09</u>	<u>\$5,457 72</u>	<u>\$239,226 38</u>	<u>\$26,283 99</u>
Receipts . . . . .	.	.	.	.
Metered Rates Last Quarter, 1921 . . . . .	.	.	.	\$239,226 38
Water Revenue, 1921 . . . . .	.	.	.	<u>26,283 99</u>
				<u>\$265,510 37</u>
Metered Rates Last Quarter, 1920.				
Uncollected January 1, 1921 . . . . .	.	.	.	\$26,919 79
Abated . . . . .	.	.	\$10 80	
Collected . . . . .	.	.	26,908 99	
			<u>26,908 99</u>	<u>\$26,919 79</u>

STATEMENT OF ESTIMATED REVENUE.

	Estimate	Receipts	Excess	Deficit
Taxes from State:				
Corporation . . . . .	\$43,000 00	\$51,946 30	\$8,946 30	.....
National Bank . . . . .	6,400 00	9,567 23	3,167 23	.....
Street Railway . . . . .	10,000 00	11,527 73	1,527 73	.....
Licenses and Permits:				
Milk . . . . .	425 00	393 50	.....	31 50
Health . . . . .	70 00	118 00	48 00	.....
City Clerk . . . . .	3,800 00	3,372 00	.....	428 00
Executive . . . . .	900 00	1,115 50	215 50	.....
Pedlers' License Commission . . . . .	700 00	966 00	266 00	.....
Buildings . . . . .	1,200 00	1,847 00	647 00	.....
Electrical . . . . .	1,700 00	2,219 02	519 02	.....
Board of License Commissioners . . . . .	900 00	2,032 50	1,132 50	.....
Fines and Forfeits:				
Court . . . . .	3,000 00	4,039 67	1,039 67	.....
Departmental Penalties . . . . .	.....	185 00	185 00	.....
Grants and Gifts:				
County, Dog Licenses . . . . .	1,900 00	1,939 18	39 18	.....
State, Industrial School . . . . .	12,670 00	12,869 91	199 91	.....
Continuation Schools . . . . .	260 00	262 50	2 50	.....
Americanization . . . . .	1,500 00	3,115 26	1,615 26	.....
Special Excise Tax . . . . .	150 00	55 48	.....	94 52
Special Assessments:				
Street Sprinkling . . . . .	44,500 00	44,636 04	136 04	.....
Street Betterments . . . . .	6,000 00	6,508 95	508 95	.....
Sidewalks . . . . .	5,000 00	6,983 04	1,983 04	.....
Sewers . . . . .	.....	1,775 35	1,775 35	.....
General Government:				
Treasury Department . . . . .	5,800 00	5,830 46	30 46	.....
City Clerk's Department . . . . .	1,750 00	1,791 05	41 05	.....

## STATEMENT OF ESTIMATED REVENUE.

	Estimate	Receipts	Excess	Deficit
Protection of Persons and Property:				
Police Department . . . . .	400 00	222 94	.....	177 06
Rent of Court Room . . . . .	1,000 00	1,000 00	.....	.....
Fire Department . . . . .	50 00	143 80	93 80	.....
Sealer of Weights and Measures . . . . .	500 00	501 42	1 42	.....
Health and Sanitation:				
Health Department . . . . .	\$650 00	\$796 10	\$146 10	.....
Contagious Hospital . . . . .	8,000 00	8,086 96	86 96	.....
Inspection of Milk and Vinegar . . . . .	300 00	658 00	358 00	.....
Sanitary Department . . . . .	14,000 00	9,980 50	.....	4,019 50
Highways:				
Highway Maintenance . . . . .	4,000 00	5,608 29	1,608 29	.....
Sidewalks Maintenance . . . . .	.....	10 00	10 00	.....
New Sidewalks . . . . .	.....	129 53	129 53	.....
Highway Buildings . . . . .	240 00	260 00	20 00	.....
Charities:				
Poor Department, City Home . . . . .	8,500 00	7,457 77	.....	1,042 23
Poor Department, Miscellaneous . . . . .	28,000 00	33,429 21	5,429 21	.....
Soldiers' Benefits:				
State Aid . . . . .	10,000 00	9,140 00	.....	860 00
Military Aid . . . . .	3,000 00	2,623 50	.....	376 50
Soldiers' Burials . . . . .	500 00	60 00	.....	440 00
Education:				
School Contingent . . . . .	4,500 00	13,118 34	8,618 34	.....
School Buildings . . . . .	650 00	1,393 68	743 68	.....
Libraries:				
Library Department . . . . .	2,200 00	1,871 11	.....	328 89
Recreation and Unclassified:				
Electrolysis . . . . .	500 00	500 00	.....	.....
Bathhouse . . . . .	600 00	654 85	54 85	.....
Shower Baths . . . . .	400 00	497 10	97 10	.....
Miscellaneous . . . . .	.....	145 79	145 79	.....



STATEMENT OF ESTIMATED REVENUE.

Public Service Enterprises:					
Water Department . . . . .	250,000 00	265,510 37	15,510 37		
Interest:					
Bank Deposits . . . . .	\$10,000 00	\$8,540 67	.....	\$1,459 33	
Deferred Taxes . . . . .	12,500 00	14,647 96	2,147 96	.....	
Deferred Assessments . . . . .	100 00	236 31	136 31	.....	
Tax Titles . . . . .	.....	669 36	669 36	.....	
Miscellaneous . . . . .	.....	24 60	24 60	.....	
Totals . . . . .	<u>\$512,215 00</u>	<u>\$563,014 83</u>	<u>\$60,057 36</u>	<u>\$9,257 53</u>	
Estimate . . . . .				\$512,215 00	
Actual . . . . .				563,014 83	
Excess . . . . .				<u>\$50,799 83</u>	

STATEMENT OF APPROPRIATIONS, 1921 (REVENUE)

	Appropriation	Appropriation Trans. from	Appropriation Trans. to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to Excess and Deficiency
<b>General Government: —</b>							
Board of Aldermen . . . . .	\$1,300 00			\$5 00	\$1,305 00	\$1,064 99	\$240 01
Clerk of Committees . . . . .	3,000 00				3,000 00	2,946 58	53 42
Executive Department . . . . .	7,775 00				7,775 00	7,464 89	310 11
Auditing Department . . . . .	6,170 00				6,170 00	6,157 79	12 21
Treasury Department . . . . .	20,577 00				20,577 00	20,566 22	10 78
Assessors Department . . . . .	22,680 00	\$355 00			22,325 00	22,266 92	58 08
Pedlers' License Commission	50 00				50 00	12 95	37 05
Board of License Commis- sioners . . . . .	475 00						
Certification of Notes and Bonds . . . . .	175 00		\$65 00		540 00	539 94	06
City Clerk's Department . . . . .	9,875 00	30 00	150 00		295 00	295 00	
Registration City Laborers . . . . .	415 00	425 00		1,872 10	11,322 10	10,928 65	393 45
Law Department . . . . .	3,000 00		255 00		415 00	412 50	2 50
City Messenger's Department	5,000 00				3,255 00	3,249 82	5 18
Engineering Department . . . . .	14,545 00		230 00		5,000 00	4,988 31	11 69
Commissioner of Public Bldgs . . . . .	10,025 00		100 00		14,775 00	14,771 07	3 93
Maintenance Municipal Bldgs	11,290 00		40 00		10,125 00	10,122 22	2 78
City Planning Board . . . . .	50 00	25 00		24 15	11,354 15	11,353 36	79
Election Expenses, City Clerk	1,575 00		50 00		25 00		25 00
Election Expenses, Registrars of Voters . . . . .	4,810 00				1,625 00	1,621 53	3 47
Pay of Election Officers . . . . .	3,640 00	410 00			4,810 00	4,571 13	238 87
Maintenance Polling Places . . . . .	500 00				3,230 00	3,143 00	87 00
					500 00	471 97	28 03

STATEMENT OF APPROPRIATIONS, 1921 (REVENUE)

	Appropriation	Appropriation Trans. from	Appropriation Trans. to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to Excess and Deficiency
<b>Protection of Persons and Property: —</b>							
Police Department . . . . .	\$187,185 00	.....	1,560 00	100 00	188,845 00	188,751 46	93 54
Maintenance Police Buildings . . . . .	4,830 00	.....	850 00	.....	5,680 00	5,680 00	.....
Fire Department . . . . .	217,825 00	45 00	.....	2,512 10	220,292 10	219,997 74	294 36
Maintenance Fire Buildings . . . . .	11,715 00	.....	2,325 00	.....	14,040 00	14,036 22	3 78
Weights and Measures . . . . .	2,455 00	.....	.....	.....	2,455 00	2,426 76	28 24
Electrical Department . . . . .	17,565 00	300 00	.....	436 93	17,701 93	17,516 48	185 45
Maintenance Electrical Dept. Buildings . . . . .	1,535 00	50 00	300 00	.....	1,785 00	1,764 72	20 28
Suppression of Moths . . . . .	4,400 00	.....	.....	.....	4,400 00	4,399 16	84
Care of Trees . . . . .	3,340 00	.....	3,288 00	.....	6,628 00	6,627 21	79
<b>Health and Sanitation: —</b>							
Health Department . . . . .	\$17,370 00	.....	\$250 00	\$8 33	\$17,628 33	\$17,626 87	\$1 46
Vital Statistics . . . . .	1,225 00	.....	.....	.....	1,225 00	1,022 32	202 68
Contagious Hospital . . . . .	20,955 00	\$400 00	.....	33 00	20,588 00	20,546 61	41 39
Maintenance Contagious Hospital . . . . .	4,540 00	140 00	500 00	.....	4,900 00	4,862 51	37 49
Inspection of Animals and Provisions of Milk and Vinegar . . . . .	2,235 00	.....	.....	.....	2,235 00	2,228 27	6 73
Inspection of School Children . . . . .	4,935 00	.....	315 00	.....	5,250 00	5,249 35	65
School Nurses' Salaries . . . . .	1,725 00	.....	5 00	.....	1,730 00	1,730 00	.....
Sewers Maintenance . . . . .	2,100 00	70 00	.....	.....	2,030 00	2,009 35	20 65
Maintenance Sewer Buildings . . . . .	23,930 00	.....	45 00	75 81	24,050 81	24,050 59	22
Sanitary Department . . . . .	240 00	.....	.....	.....	240 00	204 69	35 31
	196,010 00	400 00	.....	.....	195,610 00	195,534 42	75 58

STATEMENT OF APPROPRIATIONS, 1921 (REVENUE)

	Appropriation	Appropriation Trans. from	Appropriation Trans. to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to Excess and Deficiency
Maintenance Sanitary Buildings . . . . .	980 00	1,200 00	1,200 00	.....	2,180 00	2,169 27	10 73
Street Cleaning . . . . .	27,275 00	1,000 00	1,500 00	.....	27,775 00	27,581 70	193 30
<b>Highways: —</b>							
Highway Maintenance . . . . .	60,275 00	3,500 00	.....	33,504 99	90,279 99	90,173 26	106 73
Sidewalks Maintenance . . . . .	8,000 00	325 00	1,000 00	416 04	9,091 04	8,750 04	341 00
Street Sprinkling . . . . .	39,950 00	.....	25 00	.....	39,975 00	39,972 30	2 70
Street Lighting . . . . .	80,000 00	.....	3,410 00	.....	83,410 00	83,406 30	3 70
Maintenance Highway Buildings . . . . .	1,280 00	45 00	300 00	.....	1,535 00	1,480 04	54 96
<b>Charities and Soldiers' Benefits: —</b>							
Poor Dept. — Miscellaneous . . . . .	81,375 00	.....	6,150 00	440 42	87,965 42	87,922 69	42 73
Poor Dept. — City Home . . . . .	15,625 00	150 00	.....	.....	15,475 00	15,069 81	405 19
Maintenance City Home Buildings . . . . .	3,265 00	.....	590 00	.....	3,855 00	3,853 03	1 97
Soldiers' Benefits, General Administration . . . . .	1,420 00	.....	.....	.....	1,420 00	1,396 95	23 05
Military Aid . . . . .	3,500 00	440 00	2,500 00	240 00	5,800 00	5,487 00	313 00
State Aid . . . . .	10,000 00	710 00	.....	42 00	9,332 00	9,182 00	150 00
Soldiers' Relief . . . . .	33,150 00	.....	.....	1,740 00	34,890 00	34,377 03	512 97
Soldiers' Burials . . . . .	500 00	230 00	.....	.....	270 00	60 00	210 00
<b>Education and Libraries: —</b>							
School Contingent . . . . .	\$49,770 00	.....	\$1,300 00	.....	\$51,070 00	\$51,067 96	\$2 04
School Teachers' Salaries . . . . .	709,500 00	.....	1,460 00	.....	710,960 00	710,918 95	41 05
Janitors' Salaries . . . . .	60,529 00	.....	350 00	\$54 00	60,933 00	60,796 33	136 67
Fuel and Light . . . . .	61,500 00	.....	150 00	13 79	61,663 79	61,660 47	3 32
Buildings and Grounds . . . . .	41,340 00	1,600 00	.....	629 60	40,369 60	40,344 79	24 81

STATEMENT OF APPROPRIATIONS, 1921 (REVENUE)

	Appropriation	Appropriation Trans. from	Appropriation Trans. to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to Excess and Deficiency
Central Library . . . . .	26,730 00			401 68	27,131 68	27,131 20	48
Maintenance Central Library	6,230 00				6,230 00	6,187 12	42 88
West Somerville Branch Library	7,790 00			209 13	7,999 13	7,998 95	18
Maintenance West Somerville Branch Library	2,900 00	100 00			2,800 00	2,766 87	33 13
East Somerville Branch Library	4,910 00			2 76	4,912 76	4,911 95	81
Maintenance East Somerville Branch Library	1,935 00				1,935 00	1,934 41	59
Union Square Branch Library	4,980 00		200 00		5,180 00	5,179 68	32
Maintenance Union Square Branch Library	1,970 00		100 00	120 00	2,190 00	2,170 90	19 10
<b>Recreation and Unclassified: —</b>							
Parks Maintenance	10,950 00		200 00		11,150 00	11,149 59	41
Maintenance Park Buildings	1,500 00		1,025 00		2,525 00	2,521 20	3 80
Playgrounds Maintenance	5,050 00		6,720 00	248 88	12,018 88	12,018 82	06
Recreation and Playground Commission	6,000 00	120 00			5,880 00	5,846 72	33 28
Maintenance Bathhouse	2,595 00	200 00			2,395 00	2,382 17	12 83
Celebrations	3,500 00	1,180 00		113 62	2,433 62	2,265 40	168 22
Memorial Day	450 00		12 00		462 00	461 45	55
Municipal Documents	1,600 00		185 00	465 49	2,250 49	2,244 09	6 40
Maintenance Bandstand	150 00		175 00		325 00	248 67	76 33
Rifle Practice Cos. A & B			380 00		380 00	374 28	5 72
Quarters for American Legion	500 00				500 00	475 00	25 00
Contingent Fund	18,000 00	18,000 00					
Workmen's Compensation	5,000 00	365 00			4,635 00	4,309 15	325 85
Pensions	35,000 00	500 00		7 00	34,507 00	34,453 25	53 75
Damage to Persons and Property	5,000 00	2,000 00		300 00	3,300 00	3,288 88	11 12

## STATEMENT OF APPROPRIATIONS, 1921 (REVENUE).

	Appropriation	Appropriation Trans. from	Appropriation Trans. to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to Excess and Deficiency
<b>Municipal Indebtedness: —</b>							
Interest . . . . .	*\$118,489 58	\$4,320 00	.....	\$333 33	\$114,502 91	\$108,848 88	†\$5,654 03
Reduction of Funded Debt . . . . .	194,409 50	.....	.....	90 50	194,500 00	194,500 00	.....
<b>Water Works: —</b>							
Water Maintenance . . . . .	63,375 00	625 00	5,500 00	13,285 51	81,535 51	80,645 87	889 64
Water Works Extension . . . . .	13,500 00	.....	2,600 00	.....	16,100 00	15,958 54	141 46
Maintenance Water Buildings . . . . .	2,720 00	300 00	25 00	1 90	2,446 90	2,444 83	2 07
Metropolitan Water Assessment . . . . .	134,000 00	.....	.....	.....	134,000 00	133,989 84	10 16
<b>Total Appropriations . . . . .</b>	<b>\$2,821,510 08</b>	<b>\$38,360 00</b>	<b>\$47,385 00</b>	<b>\$57,728 06</b>	<b>\$2,888,263 14</b>	<b>\$2,875,591 20</b>	<b>†\$12,671 94</b>

\* Including balance of \$7,689.58 from 1920.

+ Reserved for 1922, \$5,181.25.

STATEMENT OF APPROPRIATIONS, 1921 (RÉVÈNUE).

	Balance from 1920	Receipts	Total Credit	Expenditures	Balance to 1922
<b>Other Accounts</b>					
Income of Trust Funds:—					
School:—					
S. Newton Cutler . . . . .	\$521 43	\$214 50	\$735 93	\$91 20	\$644 73
Caroline G. Baker . . . . .	.....	12 38	12 38	9 00	3 38
Smith - Hughes . . . . .	1,423 09	2,845 75	4,268 84	2,583 10	1,685 74
Library:—					
S. Newton Cutler . . . . .	14 62	42 88	57 50	30 07	27 43
Martha R. Hunt, Art . . . . .	176 59	100 00	276 59	187 35	89 24
Martha R. Hunt, Book . . . . .	29 59	295 29	524 88	445 24	79 64
Hunt Fund for Expenses . . . . .	202 77	.....	202 77	.....	202 77
Isaac Pitman, Art . . . . .	53 53	171 32	224 85	161 55	63 30
Isaac Pitman, Poetry . . . . .	55 52	42 82	98 34	46 46	51 88
Francis A. Wilder . . . . .	6 98	4 50	11 48	.....	11 48
Poor:—					
Olive C. Cummings . . . . .	207 07	75 05	282 12	.....	282 12
Caroline G. Baker Trust Fund . . . . .	.....	300 00	300 00	300 00	.....
Temporary Loans . . . . .	.....	.....	1,967,000 00	1,967,000 00	.....
State Taxes and Assessments . . . . .	.....	.....	534,544 57	534,544 57	.....
County Tax . . . . .	.....	.....	130,844 89	130,844 89	.....
Advance to Soldiers' Benefits . . . . .	.....	.....	100 00	100 00	.....
Tax Titles . . . . .	.....	.....	3,232 28	3,232 28	.....
Real Estate Liens . . . . .	.....	.....	12 36	12 36	.....
Tellers' Overs and Shorts . . . . .	.....	.....	42 58	42 58	.....
Refunds:—					
Taxes . . . . .	.....	.....	394 64	394 64	.....
Special Assessments . . . . .	.....	.....	74 46	74 46	.....
Water . . . . .	.....	.....	652 02	652 02	.....
Total Other Accounts . . . . .	\$2,691 19	\$4,104 49	\$2,643,893 48	\$2,640,751 77	\$3,141 71
Revenue Totals . . . . .			\$5,532,156 62	\$5,516,342 97	\$15,813 65

## STATEMENT OF APPROPRIATIONS, 1921 (NON-REVENUE).

	Balance from 1920	Appro- priation	Transfer from	Appropriation	Receipts and	Total	Expenditures	Balance to 1922
			Transfers to	Transfers to	Service Trans.	Credit		
<b>Protection of Persons and Property.</b>								
Electrical Department, Underground Wires . . . . .	\$3,263 93	.....	.....	.....	.....	\$3,263 93	.....	\$3,263 93
Extreme Emergency, Health and Safety . . . . .	985 36	.....	.....	.....	.....	985 36	\$64 00	921 36
Fire Department, Additional Apparatus . . . . .	21,300 00	\$18,000 00	.....	.....	.....	39,300 00	39,300 00	.....
<b>Health and Sanitation</b>								
Sewers Construction . . . . .	62	3,455 00	.....	\$2,100 00	\$130 04	5,685 66	5,643 19	42 47
<b>Highways</b>								
New Streets . . . . .	41 00	15,000 00	.....	710 00	.....	15,751 00	15,750 40	60
Permanent Pavement . . . . .	33,536 36	50,000 00	.....	.....	.....	83,536 36	81,510 95	2,025 41
Sidewalks Construction . . . . .	3,388 01	12,000 00	.....	.....	.....	15,388 01	15,372 29	15 72
Reconstruction and Resurfacing . . . . .	26	30,000 00	.....	1,325 00	.....	31,325 26	31,298 76	26 50
<b>Education</b>								
Bennett School Addition . . . . .	166 71	.....	.....	.....	.....	166 71	.....	166 71



## STATEMENT OF APPROPRIATIONS, 1921 (NON-REVENUE).

	Balance from 1920	Appropriation	Transfer from Appropriation	Transfers to Service Trans.	Receipts and Service Trans.	Total Credit	Expenditures	Balance to 1922
<b>New School</b>								
Building, East Somerville . . . . .	1,046 70	.....	.....	.....	.....	1,046 70	.....	1,046 70
<b>Schoolhouses,</b>								
Sprinkler Sys- tems . . . . .	3,539 88	.....	.....	.....	.....	3,539 88	.....	3,539 88
<b>Boys' Industrial School, Addi- tion No. 2 . . . . .</b>	353 35	.....	.....	.....	.....	353 35	.....	353 35
<b>Recreation</b>								
Field House, Dilboy Field . . . . .	3,538 41	.....	6,500 00	.....	.....	10,038 41	.....	10,038 41
<b>Unclassified Building Public Buildings . . . . .</b>	548 11	.....	.....	.....	.....	548 11	.....	548 11
<b>Total Appropri- ation Accounts</b>	\$71,708 70	\$128,455 00	.....	\$10,635 00	\$130 04	\$210,928 74	\$188,939 59	\$21,989 15
<b>Other Accounts</b>								
Redemption of Tax Liens . . . . .	.....	.....	.....	.....	2,941 38	2,941 38	2,941 38	.....
<b>Non - Revenue Totals . . . . .</b>	\$71,708 70	\$128,455 00	.....	\$10,635 00	\$3,071 42	\$213,870 12	\$191,880 97	\$21,989 15

## COMMONWEALTH OF MASSACHUSETTS.

## Payments.

State Tax . . . . .	\$245,420 00	
Special State Tax . . . . .	11,569 80	
State Highway Tax . . . . .	302 93	
Non-Resident Bank Tax . . . . .	4,164 61	
Metropolitan Sewer Assessment . . . . .	111,731 59	
Metropolitan Park Assessment . . . . .	63,298 07	
Wellington Bridge Assessment . . . . .	1,751 02	
Wellington Bridge Special Assessment . . . . .	1,492 70	
Grade Crossings Assessment . . . . .	7,956 60	
Charles River Basin Assessment . . . . .	10,037 81	
Alewife Brook Assessment . . . . .	1,112 01	
Abatement of Smoke Assessment . . . . .	400 75	
Fire Prevention Assessment . . . . .	847 79	
Rapid Transit Dorchester Assessment . . . . .	420 82	
Soldiers' Exemption Assessment . . . . .	379 07	
Poll Taxes 1921 . . . . .	73,641 00	
Poll Taxes 1920 . . . . .	18 00	
	<hr/>	
Total . . . . .		\$534,544 57

## Receipts.

State Aid . . . . .	\$9,140 00	
Military Aid . . . . .	2,623 50	
Soldiers' Burials . . . . .	60 00	
Income Tax 1921 . . . . .	129,504 40	
Income Tax 1920 . . . . .	26,295 00	
Income Tax 1919 . . . . .	5,259 00	
Income Tax 1918 . . . . .	1,596 00	
Mothers' Aid . . . . .	15,686 69	
General Aid to Poor . . . . .	12,096 43	
Tuition State Wards . . . . .	1,533 19	
Smith-Hughes Fund . . . . .	2,845 75	
Corporation Taxes, Domestic . . . . .	51,946 30	
Corporation Taxes, Foreign 1920 . . . . .	13,016 70	
Corporation Taxes, Foreign 1921 . . . . .	37,110 89	
Street Railway Tax . . . . .	11,527 73	
National Bank Tax . . . . .	9,567 23	
In Lieu of Taxes . . . . .	94 26	
Account of Poll Taxes 1920 . . . . .	1,098 00	
Contagious Diseases . . . . .	2,865 58	
	<hr/>	
Total . . . . .		\$333,866 65

## COUNTY OF MIDDLESEX.

County Tax . . . . .	\$130,844 88
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## STATEMENT OF REVENUE AND EXPENSES.

## Revenue.

Total amount as per assessors commitments . . . . .		\$2,823,838 42
Less State Taxes . . . . .	\$261,457 34	
County Tax . . . . .	130,844 89	
Poll, Taxes, for State . . . . .	73,641 00	
Overlay . . . . .	24,479 74	
		<u>490,422 97</u>
Amount raised for municipal purposes . . . . .		\$2,333,415 45
Other Revenue:		
Commonwealth of Massachusetts,		
Income Tax 1918, Excess . . . . .	\$1,596 00	
Income Tax 1919, Excess . . . . .	5,259 00	
Income Tax 1920, Excess . . . . .	44,372 58	
Income Tax 1921, Estimate . . . . .	138,666 78	
Foreign Corporation, Estimate . . . . .	30,000 00	
Foreign Corporation, Excess 1921 . . . . .	7,110 89	
Revenue from Taxes, Supplementary Warrants 1919 and 1920 . . . . .	861 54	
Estimated Revenue . . . . .	\$512,215 00	
Excess . . . . .	50,799 83	
		<u>563,014 83</u>
Sale of Land, Webster Avenue . . . . .	5,027 43	
Transfers from Excess and Deficiency . . . . .	55,000 00	
		<u>850,909 05</u>
Total . . . . .		\$3,184,324 50

## Expenses.

General Appropriations . . . . .	\$2,817,089 81	
Outlay Appropriations . . . . .	87,355 00	
Metropolitan and Other Assessments . . . . .	199,428 23	
Deficiency Foreign Corporation Receipts of 1920 . . . . .	30,696 78	
Tellers Overs and Shorts . . . . .	42 58	
		<u>3,134,612 40</u>
Excess of Revenue . . . . .		\$49,712 10

## TEMPORARY LOANS, 1921.

Taken By	Nos.	Issued	Due	Rate	Amount	Paid
Percy G. Crocker & Co.	847	Feb. 1, 1921	Nov. 17, 1921	5 60	\$12,000 00	Nov. 17, 1921
F. S. Moseley & Co.	848 @ 852	Feb. 1, 1921	Nov. 4, 1921	5 55	75,000 00	Nov. 4, 1921
Estabrook & Co.	853 @ 861	Feb. 7, 1921	Nov. 4, 1921	5 49	100,000 00	Nov. 4, 1921
Blodget & Co.	862	Feb. 24, 1921	Oct. 5, 1921	5 55	25,000 00	Oct. 5, 1921
Somerville Trust Co.	863 @ 867	Mar. 4, 1921	Nov. 4, 1921	5 50	50,000 00	Nov. 4, 1921
Somerville National Bank	868 @ 872	Mar. 8, 1921	Nov. 4, 1921	5 50	50,000 00	Nov. 4, 1921
Old Colony Trust Co.	873	Mar. 10, 1921	June 30, 1921	5 60	50,000 00	June 30, 1921
F. S. Moseley & Co.	874 @ 878	Mar. 10, 1921	Nov. 4, 1921	5 85	50,000 00	Nov. 4, 1921
Somerville Trust Co.	879 @ 884	Mar. 18, 1921	Nov. 4, 1921	5 50	50,000 00	Nov. 4, 1921
Estabrook & Co.	885 @ 888	Mar. 28, 1921	Oct. 27, 1921	5 92	50,000 00	Oct. 27, 1921
Estabrook & Co.	889 @ 897	Mar. 28, 1921	Nov. 10, 1921	5 92	100,000 00	Nov. 10, 1921
Somerville Trust Co.	898 @ 900	April 7, 1921	Nov. 17, 1921	5 80	25,000 00	Nov. 17, 1921
Old Colony Trust Co.	901 @ 909	April 8, 1921	Nov. 17, 1921	5 90	100,000 00	Nov. 17, 1921
Highland Trust Co.	910 @ 911	April 11, 1921	Nov. 17, 1921	5 80	25,000 00	Nov. 17, 1921
Old Colony Trust Co.	912 @ 920	April 22, 1921	Nov. 4, 1921	5 88	100,000 00	Nov. 4, 1921
Estabrook & Co.	921 @ 929	April 28, 1921	Nov. 17, 1921	5 84	100,000 00	Nov. 17, 1921
Old Colony Trust Co.	930 @ 938	May 24, 1921	Dec. 15, 1921	5 68 + 1 50	100,000 00	Dec. 15, 1921
First Nat'l Bank of Boston	939 @ 940	June 8, 1921	Nov. 10, 1921	5 90	100,000 00	Nov. 10, 1921
*Somerville Trust Co.	C 98 @ C 102	June 21, 1921	June 21, 1921	5 75	25,000 00	
Estabrook & Co.	941 @ 953	June 27, 1921	Nov. 22, 1921	6 04	150,000 00	Nov. 22, 1921
Harris, Forbes & Co.	954	July 12, 1921	Oct. 28, 1921	5 60	30,000 00	Oct. 28, 1921
*F. S. Moseley & Co.	C 103 @ C 104	July 15, 1921	July 15, 1922	5 75	50,000 00	
*J. W. Bowen & Co.	C 105	July 15, 1921	June 15, 1922	5 50	10,000 00	
*Highland Trust Co.	C 106 @ C 110	Aug. 10, 1921	May 10, 1922	5 25	50,000 00	
Estabrook & Co.	955 @ 963	Sept. 7, 1921	Jan. 31, 1922	5 00	100,000 00	
Estabrook & Co.	964 @ 972	Sept. 7, 1921	Feb. 28, 1922	5 00	100,000 00	

Old Colony Trust Co. . . . .	973 @ 978	Oct. 6, 1921	Mar. 24, 1922	5 00	100,000 00
Somerville National Bank . . . . .	979 @ 982	Nov. 17, 1921	April 27, 1922	4 3/8	50,000 00
Somerville Trust Co. . . . .	974 @ 990	Nov. 17, 1921	May 25, 1922	4 3/8	100,000 00
Total amount of 1921 loans . . . . .					<u>\$1,927,000 00</u>
Outstanding January 1, 1921 . . . . .					<u>625,000 00</u>
Payments 1921 . . . . .					<u>\$2,552,000 00</u>
Outstanding December 31, 1921 . . . . .					<u>1,967,000 00</u>
					<u>\$585,000 00</u>

\* Coupon Notes, Interest Payable Semi-Annually.

## FUNDED DEBT.

The total funded debt of the city January 1, 1921, was \$1,148,000. The debt was increased \$50,000 on account of one highway loan. Maturities during the year reduced the debt \$194,500. The net reduction was therefore \$144,500, leaving a total debt on December 31st, 1921, of \$1,003,500.

## Classified Debt January 1, 1921.

City Loan . . . . .	\$318,000 00	
Municipal Loan . . . . .	23,000 00	
Sewer Loan . . . . .	219,000 00	
Public Building Loan . . . . .	254,000 00	
Highway Loan . . . . .	271,000 00	
Bridge Loan . . . . .	29,000 00	
Emergency Loan . . . . .	10,000 00	
	<hr/>	
Total inside limit . . . . .		\$1,124,000 00
Sewer Loan . . . . .	\$15,000 00	
Metropolitan Park Loan . . . . .	9,000 00	
	<hr/>	
Total outside limit . . . . .		24,000 00
		<hr/>
Total Funded Debt . . . . .		\$1,148,000 00

## Loan Increasing the Debt.

Highway Loan . . . . .	\$50,000 00
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Maturities reducing the debt were as follows:—

City Loan . . . . .	\$68,500 00	
Municipal Loan . . . . .	8,000 00	
Sewer Loan . . . . .	20,000 00	
Public Building Loan . . . . .	24,000 00	
Highway Loan . . . . .	64,000 00	
Bridge Loan . . . . .	1,000 00	
Emergency Loan . . . . .	5,000 00	
	<hr/>	
Total inside limit . . . . .		\$190,500 00
Sewer Loan . . . . .	\$3,000 00	
Metropolitan Park Loan . . . . .	1,000 00	
	<hr/>	
Total outside limit . . . . .		4,000 00
		<hr/>
Total Maturities . . . . .		\$194,500 00

## Classified Debt December 31, 1921.

City Bonds, 3½% . . . . .	\$22,000 00	
City Bonds, 4% . . . . .	207,500 00	
City Bonds, 4½% . . . . .	20,000 00	
Municipal Bonds, 4½% . . . . .	15,000 00	
Sewer Bonds, 3½% . . . . .	56,000 00	
Sewer Bonds, 4% . . . . .	121,000 00	
Sewer Bonds, 4¼% . . . . .	22,000 00	
Public Buildings Bonds, 4% . . . . .	160,000 00	
Public Buildings Bonds, 4½% . . . . .	70,000 00	
Highway Bonds, 4½% . . . . .	34,000 00	
Highway Bonds, 4% . . . . .	90,000 00	
Highway Bonds, 3½% . . . . .	38,000 00	
Highway Bonds, 5% . . . . .	95,000 00	
Bridge Bonds, 3½% . . . . .	28,000 00	
Emergency Bonds, 4½% . . . . .	5,000 00	
	<hr/>	
Total within limit . . . . .		\$983,500 00
Sewer Bonds, 4% . . . . .	\$12,000 00	
Metropolitan Park Bonds, 3½% . . . . .	8,000 00	
	<hr/>	
Total outside limit . . . . .		20,000 00
		<hr/>
Total Funded Debt . . . . .		\$1,003,500 00

## TAXES.

The total amount of taxable property as of April 1, 1921, not including non-resident bank shares, was \$86,718,289. The tax rate was fixed at \$31.10 per \$1,000 valuation.

State Tax . . . . .	\$245,420 00
Special State Tax . . . . .	11,569 80
Metropolitan Sewerage Assessment . . . . .	111,731 59
Metropolitan Parks Assessment . . . . .	63,298 07
Wellington Bridge Assessment . . . . .	1,751 02
Wellington Bridge Special Assessment . . . . .	1,492 70
Grade Crossings Assessment . . . . .	7,956 60
State Highway Assessment . . . . .	302 93
Charles River Basin Assessment . . . . .	10,037 81
Alewife Brook Assessment . . . . .	1,112 01
Abatement of Smoke Assessment . . . . .	400 75
Fire Prevention Assessment . . . . .	847 79
Rapid Transit, Dorchester Dist. Assmt. . . . .	420 82
County Tax . . . . .	130,844 89
Non-Resident Bank Tax . . . . .	4,164 61
City Appropriations . . . . .	2,892,275 50
Overlay . . . . .	24,479 74
	<hr/>
Total amount raised . . . . .	\$3,508,106 63

Less estimated revenue . . . . .	\$512,215 00	
Appropriated from Excess and Deficiency . . . . .	55,000 00	
State Income Tax Receipts . . . . .	60,057 78	
State Income Tax Receipts, General School Fund . . . . .	78,609 00	
Foreign Corporation, Excise Tax . . . . .	30,000 00	
Income Tax Excess of Previous Years . . . . .	17,000 00	
Sale of Land . . . . .	5,027 43	
Poll Taxes, Proportional Part for City Use . . . . .	49,094 00	
		<hr/>
		\$807,003 21
Net amount assessed in taxes . . . . .		\$2,701,103 42

**Special Assessment.**

Street Sprinkling . . . . .		44,830 08
		<hr/>
Amount committed . . . . .		\$2,745,933 50



FUNDED DEBT, DECEMBER 31, 1921.

Mature	City		Municipal		Sewer		Public		Highway		Lowell Street		Sewer Loan		Metropolitan		Total	
	Loan		Loan		Loan		Building	Loan	Loan	Bridge	Loan	Chap. 357	Chap. 325, 1902	Emergency	Loan	Chap. 325, 1902	Loan	by Years
1922.....	\$52,500		\$8,000		\$20,000		\$19,000		\$60,000		\$1,000	\$3,000	\$1,000	\$5,000		\$1,000		\$169,500
1923.....	41,500		7,000		18,000		18,000		41,000		1,000	3,000	1,000			1,000		130,500
1924.....	25,500				17,000		18,000		41,000		1,000	3,000	1,000			1,000		106,500
1925.....	23,000				17,000		18,000		30,000		1,000	3,000	1,000			1,000		93,000
1926.....	19,000				15,000		18,000		25,000		1,000		1,000			1,000		79,000
1927.....	19,000				14,000		17,000		17,000		1,000		1,000			1,000		69,000
1928.....	17,000				12,000		16,000		14,000		1,000		1,000			1,000		61,000
1929.....	16,000				11,000		16,000		14,000		1,000		1,000			1,000		59,000
1930.....	15,000				10,000		16,000		10,000		1,000							52,000
1931.....	12,000				10,000		15,000		5,000		1,000							43,000
1932.....	9,000				8,000		15,000				1,000							33,000
1933.....					8,000		14,000				1,000							23,000
1934.....					8,000		14,000				1,000							23,000
1935.....					7,000		8,000				1,000							16,000
1936.....					6,000		4,000				1,000							11,000
1937.....					6,000		4,000				1,000							11,000
1938.....					4,000						1,000							5,000
1939.....					3,000						1,000							4,000
1940.....					2,000						1,000							3,000
1941.....					1,000						1,000							2,000
1942.....					1,000						1,000							2,000
1943.....					1,000						1,000							2,000
1944.....											1,000							1,000
1945.....											1,000							1,000
1946.....											1,000							1,000
1947.....											1,000							1,000
1948.....											1,000							1,000
1949.....											1,000							1,000
	\$249,500		\$15,000		\$199,000		\$230,000		\$257,000		\$28,000	\$12,000	\$8,000	\$5,000				\$1,003,500

MATURITIES ON FUNDED DEBT, 1922.

Class of Loan	Jan. 1, 1922	April 1, 1922	July 1, 1922	Oct. 1, 1922	Total
City	\$9,000 00	\$24,000 00	\$17,500 00	\$2,000 00	\$52,500 00
Municipal	.....	.....	8,000 00	.....	8,000 00
Sewer	3,000 00	10,000 00	10,000 00	.....	23,000 00
Public Buildings	6,000 00	5,000 00	8,000 00	.....	19,000 00
Highway	8,000 00	48,000 00	4,000 00	.....	60,000 00
Bridge	.....	1,000 00	.....	.....	1,000 00
Metropolitn Park	.....	.....	1,000 00	.....	1,000 00
Extreme Emergency	.....	.....	5,000 00	.....	5,000 00
Total	\$26,000 00	\$88,000 00	\$53,500 00	\$2,000 00	\$169,500 00

INTEREST REQUIREMENTS ON FUNDED DEBT, 1922.

Class of Loan	Jan. 1, 1922	April 1, 1922	July 1, 1922	Oct. 1, 1922	Total
City	\$2,505 00	\$2,455 00	\$2,325 00	\$1,972 50	\$9,257 50
Municipal	337 50	.....	337 50	.....	675 00
Sewer	1,240 00	2,867 50	1,185 00	2,671 25	7,963 75
Public Buildings	3,515 00	1,260 00	3,395 00	1,160 00	9,330 00
Highway	910 00	4,695 00	770 00	3,675 00	10,050 00
Bridges	.....	490 00	.....	472 50	962 50
Metropolitan Park	140 00	.....	140 00	.....	280 00
Extreme Emergency	106 25	.....	106 25	.....	212 50
Total	\$8,753 75	\$11,767 50	\$8,258 75	\$9,951 25	\$38,731 25

MATURITIES ON FUNDED DEBT (SIX YEARS).

Class of Loan	1917	1918	1919	1920	1921	1922	Total
City	\$118,500 00	\$105,500 00	\$92,500 00	\$79,500 00	\$68,500 00	\$52,500 00	\$517,000 00
Municipal	10,000 00	8,000 00	8,000 00	8,000 00	8,000 00	8,000 00	50,000 00
Sewer	22,000 00	23,000 00	23,000 00	23,000 00	23,000 00	23,000 00	137,000 00
Public Buildings	19,000 00	24,000 00	24,000 00	24,000 00	24,000 00	19,000 00	134,000 00
Highway	56,000 00	79,000 00	78,000 00	68,000 00	64,000 00	60,000 00	405,000 00
Bridges	1,000 00	1,000 00	1,000 00	1,000 00	1,000 00	1,000 00	6,000 00
Metropolitan Park	1,000 00	1,000 00	1,000 00	1,000 00	1,000 00	1,000 00	6,000 00
Water	5,000 00	5,000 00	4,000 00	2,000 00	.....	.....	16,000 00
Extreme emergency	.....	5,000 00	5,000 00	5,000 00	5,000 00	5,000 00	25,000 00
Total	\$232,500 00	\$251,500 00	\$236,500 00	\$211,500 00	\$194,500 00	\$169,500 00	\$1,296,000 00

INTEREST REQUIREMENTS ON FUNDED DEBT (SIX YEARS).

Class of Loan	1917	1918	1919	1920	1921	1922	Total
City	\$26,606 25	\$22,143 75	\$18,162 50	\$14,757 50	\$11,767 50	\$9,257 50	\$102,695 00
Municipal	2,565 00	2,115 00	1,755 00	1,395 00	1,035 00	675 00	9,540 00
Sewer	12,306 25	11,533 75	10,641 25	9,748 75	8,856 25	7,963 75	61,050 00
Public Buildings	9,980 00	13,270 00	12,285 00	11,300 00	10,315 00	9,330 00	66,480 00
Highway	13,822 50	14,325 00	12,162 50	11,457 50	11,345 00	10,050 00	73,162 50
Bridges	1,137 50	1,102 50	1,067 50	1,032 50	997 50	962 50	6,300 00
Metropolitan Park	455 00	420 00	385 00	350 00	315 00	280 00	2,205 00
Water	640 00	440 00	240 00	80 00	.....	.....	1,400 00
Extreme Emergency	.....	1,062 50	850 00	637 50	425 00	212 50	3,187 50
Total	\$67,512 50	\$66,412 50	\$57,548 75	\$50,758 75	\$45,056 25	\$38,731 25	\$326,020 00

## BORROWING CAPACITY DECEMBER 31, 1921.

Valuation 1919 . . . . .	\$87,353,424 00	
Supplementary . . . . .	39,300 00	
	<hr/>	\$87,392,724 00
Valuation 1920 . . . . .	\$83,910,855 60	
Supplementary . . . . .	17,700 00	
	<hr/>	83,928,555 60
Valuation 1921 . . . . .	\$86,718,239 60	
Supplementary . . . . .	75,258 00	
	<hr/>	86,793,547 60
		<hr/>
Total . . . . .		\$258,114,827 20
Abatements, 1919 . . . . .	\$349,375 00	
Abatements, 1920 . . . . .	476,450 00	
Abatements, 1921 . . . . .	541,408 00	
	<hr/>	1,367,233 00
		<hr/>
Average valuation for three years . . . . .		\$256,747,594 20
Two and one-half per cent . . . . .		\$85,582,531 40
Present debt within limit . . . . .		2,139,563 28
		<hr/>
Borrowing capacity December 31, 1921		983,500 00
Maturities:—		<hr/>
January 1, 1922 . . . . .	\$26,000 00	
April 1, 1922 . . . . .	88,000 00	
July 1, 1922 . . . . .	\$53,500 00	
Less outside limit . . . . .	4,000 00	
	<hr/>	49,500 00
October 1, 1922 . . . . .	2,000 00	
	<hr/>	2,000 00
Maturities in 1922 within limit . . . . .		\$165,500 00
		<hr/>
		\$1,321,563 28

## ABATEMENTS SPECIAL ASSESSMENTS PRIOR YEARS.

Charges:			
Highway Betterment, 1920 . . . .		\$2,877 33	
Street Sprinkling, 1920 . . . .		9 96	
		<hr/>	\$2,887 29
Credit:			
Excess and Deficiency . . . . .			\$2,887 29

## WATER CHARGES, 1920, REFUNDED OR ABATED.

Charges:			
Metered . . . . .			\$10 80
Credit:			
Excess and Deficiency . . . . .			\$10 80

## TELLERS' OVERS AND SHORTS.

Charges:			
Shortages . . . . .			\$42 58
Credit:			
Appropriation from Revenue . . . .			\$42 58

## STATE INCOME TAX, 1918.

Credit:			
Cash from Commonwealth . . . . .			\$1,596 00
Charges:			
To Revenue 1921 . . . . .			\$1,596 00

## STATE INCOME TAX, 1919.

Credit:			
Cash from Commonwealth . . . . .			\$5,259 00
Charges:			
To Revenue 1921 . . . . .			\$5,259 00

## STATE INCOME TAX, 1920.

Credit:			
Balance from 1920 account . . . .		\$18,077 58	
Cash from Commonwealth . . . . .		26,295 00	
		<hr/>	\$44,372 58
Charges:			
To Revenue 1921 . . . . .			44,372 58

## STATE INCOME TAX, 1921.

Charges:			
Estimate Account General School Fund		\$78,609 00	
Estimate Account General Purposes .		60,057 78	
		<hr/>	\$138,666 78
Credit:			
Cash from Commonwealth . . . . .			129,504 40
			<hr/>
Balance to 1922 account . . . . .			\$9,162 38

## TAX TITLES.

Charges:			
Balance from 1920 account	.	\$5,916	48
Tax Titles purchased, 1920 Taxes	.	3,232	28
		<hr/>	\$9,148 76
Credit:			
Cash	.		6,670 25
		<hr/>	\$2,478 51
Balance to 1922 account	.		

## REAL ESTATE LIENS.

Charges:			
Balance from 1920 account	.	\$181	52
Taxes, 1920	.		12 36
		<hr/>	\$193 88
Balance to 1922 account	.		

## GRADE CROSSINGS ADVANCES.

Charges:			
Balance from 1920 account	.	\$427	30

## TAILINGS.

Credit:			
Balance from 1920 account	.	\$291	65

## PREMIUMS ON BONDS.

Credit:			
Balance from 1920 account	.	\$90	50
Charges:			
Transfer to General Appropriations acc't		\$90	50

## SALE OF LAND, WEBSTER AVENUE.

Credit:			
Cash	.	\$5,027	43
Charges:			
To Revenue 1921	.	\$5,027	43

## ACCRUED INTEREST ON BONDS.

Credit:			
Cash, Loan of April 1, 1921	.	\$333	33
Charges:			
Transfer to General Appropriations	.	\$333	33

## REVENUE FROM TAXES, SUPPLEMENTARY WARRANTS.

Credit:			
Balance from 1920 account	.	\$1,016	25
Supplementary Warrant No. 1	.	1,175	00
Supplementary Warrant No. 2	.	2,340	53
Charged to Commonwealth, on account of Abated Polls 1920	.	30	00
		<u>          </u>	\$4,561 78
Charges:			
Abatements	.	\$2,171	59
Credit Commonwealth, on account of Polls 1921, Supp. Warrant	.	705	00
To Revenue 1921	.	861	54
		<u>          </u>	3,738 13
Balance to 1922 account	.		<u>\$823 65</u>

## REDEMPTION OF TAX TITLES.

Credit:			
Cash Received	.		\$2,941 38
Charges:			
Titles redeemed, cash paid	.		\$2,941 38

## OVERLAY ACCOUNTS.

## Overlay, 1917.

Credit:			
Balance from 1920 account	.		\$818 20
Charges:			
Abatements	.	\$41	60
Transferred to Reserve Fund	.	4	40
		<u>          </u>	46 00
Balance to 1922 account	.		<u>\$772 20</u>

## Overlay, 1918.

Credit:			
Balance from 1920 account	.		\$353 20
Charges:			
Abatements	.	\$104	16
Transferred to Reserve Fund	.	105	52
		<u>          </u>	209 68
Balance to 1922 account	.		<u>\$143 52</u>

## Overlay, 1919.

Credit:			
Transfer from Reserve Fund	.	\$1,000	00
Recommitment Taxes	.	10	32
		<u>          </u>	\$1,010 32

## Charges:

Balance from 1920 account . . . . .	\$95 63	
Abatements . . . . .	588 40	
		684 03
Balance to 1922 account . . . . .		\$326 29

## Overlay, 1920.

## Credit:

Balance from 1920 account . . . . .	\$1,819 31	
Transfer from Reserve Fund . . . . .	4,000 00	
Charged to Commonwealth, on account of Polls, 1920 . . . . .	927 00	
		\$6,746 31

## Charges:

Abatements . . . . .		4,758 15
Balance to 1922 account . . . . .		\$1,988 16

## Overlay, 1921.

## Credit:

Taxes, 1921 . . . . .	\$24,479 74	
Charged to Commonwealth on account of Polls . . . . .	3,576 00	
		\$28,055 74

## Charges:

Abatements . . . . .		21,744 91
Balance to 1922 account . . . . .		\$6,310 83

## RESERVE FUND, SURPLUS FROM OVERLAY.

## Credit:

Balance from 1920 account . . . . .	\$8,246 53	
Transferred from Overlay, 1917 . . . . .	4 40	
Transferred from Overlay, 1918 . . . . .	105 52	
		\$8,356 45

## Charges:

Transferred to Overlay, 1919 . . . . .	\$1,000 00	
Transferred to Overlay, 1920 . . . . .	4,000 00	
		5,000 00
Balance to 1922 account . . . . .		\$3,356 45

## EXCESS AND DEFICIENCY.

## Credit:

Balance from 1920 account . . . . .	\$68,453 36	
Refund account of previous year . . . . .	6 00	
Revenue Excess, 1921 . . . . .	49,712 10	
		\$118,171 46

## Charges:

Transfer to reduce tax levy . . . . .	\$55,000 00	
Abatements Special Assessments Prior Years . . . . .	2,887 29	
Water Charges 1920 Abated . . . . .	10 80	
		57,898 09
Balance to 1922 account . . . . .		\$60,273 37



## CLASSIFICATION OF RECEIPTS AND EXPENDITURES.

## Receipts.

## General Revenue.

Taxes:—	
Taxes, 1921	\$2,354,775 34
Taxes, 1920	391,939 85
Taxes, 1919	164 84
Taxes, 1918	105 52
Taxes, 1917	4 40
From State:—	
Domestic Corporations	51,946 30
Foreign Corporations	50,127 59
National Bank	9,567 23
Street Railway	11,527 73
Income Tax, 1921	129,504 40
Income Tax, 1920	26,295 00
Income Tax, 1919	5,259 00
Income Tax, 1918	1,596 00
Account of Poll Taxes, 1920	1,098 00
Excise Tax, Ship Owners	347 24

## Licenses and Permits.

Licenses:—	
Amusement	1,115 50
Dealers in Motor Vehicles	650 00
Junk	710 00
Milk	393 50
Pool and Billiards	398 00
Sunday	1,070 00
Innholders and Victuallers	278 00
Pedlers	966 00
All Other	223 50
Permits:—	
Marriage	1,278 00
Buildings, etc.	1,847 00
Electrical	2,219 02
All Other	915 00

## Fines and Forfeits.

Court Fines	4,039 67
Departmental Penalties	185 00
Tax Titles Sold to Individuals	6,670 25

## Grants and Gifts.

From State, — Vocational Schools	12,869 91
Continuation Schools	262 50
Americanization	3,115 26
Smith-Hughes Fund	2,845 75
From County, — Dog Licenses	1,939 18
From Individuals, — Caroline G. Baker Fund	300 00

## All Other General Revenue.

Miscellaneous	45 82
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Total General Revenue	<hr/>	\$3,078,595 30
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Carried forward		\$3,078,595 30
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Brought forward . . . . . \$3,078,595 30

**Commercial Revenue — Special Assessments.**

For Expenses:—

Street Sprinkling, 1921 . . . . .	\$36,723 95
Street Sprinkling, 1920 . . . . .	7,490 70

For Outlays:—

Sidewalks, 1921 . . . . .	913 65
Sidewalks, 1920 . . . . .	2,925 68
Sidewalks, 1919 . . . . .	1,074 85
Street Betterments, 1921 . . . . .	2,089 65
Street Betterments, 1920 . . . . .	2,927 78
Street Betterments, 1919 . . . . .	1,330 60
Sewers, 1921 . . . . .	194 28

Total Commercial Revenue—Special  
Assessments . . . . .

\$55,671 14

**Commercial Revenue — Departmental.**

**General Government.**

Treasurer and Collector . . . . .	\$5,830 46
Assessors . . . . .	2 00
City Clerk . . . . .	1,791 05
Engineering . . . . .	3 71

**Protection of Persons and Property.**

Police Department:—

Service of Officers . . . . .	118 31
Rent of Court Room . . . . .	1,000 00
Miscellaneous . . . . .	104 63
Fire Department . . . . .	143 80
Sealer of Weights and Measures . . . . .	501 42

**Health and Sanitation.**

Contagious Hospital . . . . .	8,086 96
Health Department . . . . .	796 10
Inspection . . . . .	658 00
Sanitary Department, Garbage . . . . .	9,980 50

**Highways.**

Labor and Materials . . . . .	5,608 29
Sidewalks, — Maintenance . . . . .	10 00
Outlay . . . . .	129 53
Rent of Tenements . . . . .	260 00

**Charities.**

Almshouse:—

Sale of Produce, etc. . . . .	3,727 39
Board . . . . .	3,730 38

Outside Relief:—

Individuals . . . . .	235 43
Cities and Towns . . . . .	5,192 66
State . . . . .	12,096 43

Mothers' Aid:—

Cities and Towns . . . . .	218 00
State . . . . .	15,686 69

Carried forward . . . . . \$75,911 74 \$3,134,266 44

Brought forward . . . . .	\$75,911 74	\$3,134,266 44
<b>Soldiers' Benefits.</b>		
State Aid . . . . .	10,586 00	
Military Aid . . . . .	720 75	
Soldiers' Burials . . . . .	120 00	
<b>Education.</b>		
Tuition State Wards . . . . .	1,533 19	
Other Tuition . . . . .	11,564 04	
Rent High School Hall . . . . .	1,161 00	
Miscellaneous, School Buildings . . . . .	227 13	
All other . . . . .	26 66	
<b>Libraries.</b>		
Fines, etc. . . . .	1,871 11	
<b>Recreation.</b>		
Bathhouse . . . . .	654 85	
Shower Baths . . . . .	497 10	
<b>Unclassified.</b>		
Electrolysis . . . . .	500 00	
State, in Lieu of Taxes . . . . .	94 26	
Sale of Land . . . . .	5,027 43	
Total Commercial Revenue — De-		
partmental . . . . .		\$110,495 26
<b>Commercial Revenue — Public Service Enterprises.</b>		
Water Department.		
Sale of Water:—		
Metered, 1921 . . . . .	\$192,424 99	
Metered, 1920 . . . . .	26,908 99	
Annual . . . . .	34,875 94	
Additional . . . . .	794 21	
Service Assessments . . . . .	5,408 19	
Maintenance Bills . . . . .	6,375 07	
Total Commercial Revenue—Public		
Service Enterprises . . . . .		\$266,787 39
<b>Commercial Revenue — Interest.</b>		
Deposits . . . . .	\$8,540 67	
Taxes . . . . .	14,647 96	
Special Assessments . . . . .	236 31	
Tax Titles . . . . .	669 36	
Department Bills . . . . .	18 32	
Corporation Taxes . . . . .	6 28	
Trust Funds:—		
School . . . . .	226 88	
Library . . . . .	856 81	
Poor Department . . . . .	75 05	
Total Commercial Revenue—Interest		\$25,277 64
Carried forward . . . . .		\$3,536,826 73

Brought forward . . . . .		\$3,536,826 73
<b>Municipal Indebtedness.</b>		
Temporary Loans:—		
Anticipation of Revenue . . . . .	\$1,927,000 00	
General Loans:—		
Highway . . . . .	50,000 00	
	<hr/>	
Total Municipal Indebtedness . . . . .		\$1,977,000 00
<b>Agency, Trust, and Investment.</b>		
Redemption of Tax Titles . . . . .		\$2,941 38
<b>Refunds</b>		
Soldiers' Benefits . . . . .	\$2,040 00	
General Appropriations . . . . .	1,416 77	
	<hr/>	
Total Refunds . . . . .		\$3,456 77
		<hr/>
Total Receipts . . . . .		\$5,520,224 88

## EXPENDITURES.

## GENERAL GOVERNMENT.

## Board of Aldermen Expenses.

	Expenses	Outlays
Books, postage and supplies . . . . .	\$30 00	
Printing and advertising . . . . .	84 50	
Refreshments . . . . .	908 04	
Badges . . . . .	8 40	
All Other . . . . .	29 05	
	<hr/>	
	\$1,059 99	

## Clerk of Committees Department.

Salaries and Wages:—		
Clerk . . . . .	\$2,100 00	
Assistant Clerk, . . . . .	700 00	
Other Expenses:—		
Books, postage and supplies . . . . .	55 80	
Printing and advertising . . . . .	14 50	
Telephone . . . . .	76 28	
	<hr/>	
	2,946 58	

## Executive Department.

Salaries and Wages:—		
Mayor . . . . .	\$4,000 00	
Secretary . . . . .	1,500 00	
Clerks . . . . .	1,110 84	
Other Expenses:—		
Books, postage and supplies . . . . .	66 76	
Printing and advertising . . . . .	69 93	
Telephone . . . . .	143 76	
Auto hire . . . . .	6 00	
Contingent expenses . . . . .	413 65	
All other . . . . .	70 45	
Special Item:—		
Typewriter . . . . .	83 50	
	<hr/>	
	7,464 89	
	<hr/>	
Carried forward . . . . .		\$11,471 46

	Expenses	Outlays
Brought forward . . . . .	\$11,471 46	
<b>Auditing Department.</b>		
Salaries and Wages: —		
Auditor . . . . .	\$3,100 00	
Clerks . . . . .	2,196 79	
Other Expenses: —		
Books, postage and supplies . . . . .	90 44	
Printing and advertising . . . . .	644 15	
Binding . . . . .	52 00	
Telephone . . . . .	36 35	
All other . . . . .	38 06	
	<u>6,157 79</u>	
<b>Treasury Department.</b>		
Salaries and Wages: —		
Treasurer and Collector . . . . .	\$4,000 00	
Deputy Collector . . . . .	2,000 00	
Cashiers . . . . .	2,507 24	
Clerks . . . . .	7,807 08	
Other Expenses: —		
Books, postage and supplies . . . . .	\$1,911 10	
Printing and advertising . . . . .	1,167 57	
Telephone . . . . .	155 04	
Bonds . . . . .	454 29	
Carfares . . . . .	34 00	
Convention expenses . . . . .	74 55	
All other . . . . .	290 35	
Special Item: —		
Adding Machine . . . . .	165 00	
	<u>20,566 22</u>	
<b>Assessors' Department.</b>		
Salaries and Wages: —		
Chairman . . . . .	\$2,800 00	
Assessors . . . . .	4,800 00	
Assistant Assessors . . . . .	3,600 00	
Clerks (Office) . . . . .	7,454 70	
Clerks (Street) . . . . .	482 50	
Other Expenses: —		
Books, postage and supplies . . . . .	\$903 20	
Printing and advertising . . . . .	1,989 63	
Carfares, auto hire, etc. . . . .	38 00	
Telephone . . . . .	38 12	
All other . . . . .	160 77	
	<u>22,266 92</u>	
<b>Board of License Commissioners.</b>		
Salaries and Wages: —		
Inspector . . . . .	\$200 00	
Clerk . . . . .	200 00	
Other Expenses: —		
Books, postage and supplies . . . . .	40 19	
Printing and advertising . . . . .	99 75	
	<u>539 94</u>	
Carried forward . . . . .	<u>\$61,002 33</u>	

	Expenses	Outlays
Brought forward . . . . .	\$61,002 33	
<b>Pedlers' License Commission.</b>		
Books, postage and supplies . . . . .	\$3 20	
Printing . . . . .	9 75	
	<hr/>	12 95
<b>Certification of Notes and Bonds.</b>		
Certifying . . . . .	\$295 00	
	<hr/>	295 00
<b>City Clerk's Department.</b>		
Salaries and Wages: —		
City Clerk . . . . .	\$3,480 79	
Assistant City Clerk . . . . .	1,754 88	
Clerks . . . . .	2,894 91	
	<hr/>	
Other Expenses: —		
Books, postage and supplies . . . . .	\$451 39	
Printing and advertising . . . . .	99 84	
Binding . . . . .	24 00	
Telephone . . . . .	126 85	
Badges . . . . .	17 25	
All other . . . . .	44 64	
Special Item: —		
Typewriters . . . . .	162 00	
	<hr/>	9,056 55
<b>Registration of City Laborers.</b>		
Salaries and Wages: —		
Registration Clerk . . . . .	\$400 00	
Other Expenses: —		
Books and postage . . . . .	10 00	
Printing . . . . .	2 50	
	<hr/>	412 50
<b>Law Department.</b>		
Salaries and Wages: —		
City Solicitor . . . . .	\$2,700 00	
Other Expenses: —		
Books, postage and supplies . . . . .	15 00	
Recording . . . . .	1 40	
Printing and advertising . . . . .	41 75	
Clerical hire . . . . .	156 00	
Witness feets, etc. . . . .	224 47	
Telephone . . . . .	20 00	
All other . . . . .	91 20	
	<hr/>	3,249 82
<b>City Messenger's Department.</b>		
Salaries and Wages: —		
Messenger . . . . .	\$2,200 00	
Other Expenses: —		
Stationery and postage . . . . .	2 00	
Auto maintenance . . . . .	744 69	
Telephone . . . . .	24 82	
Carfares . . . . .	16 80	
	<hr/>	
Carried forward . . . . .	\$2,988 31	\$74,029 15

		Expenses	Outlays
Brought forward . . . .	\$2,988 31	\$74,029 15	
Special Item: —			
Auto . . . . .	2,000 00		
	<hr/>	4,988 31	
<b>Engineering Department.</b>			
Salaries and Wages: —			
City Engineer . . . .	\$4,000 00		
Assistants . . . . .	7,779 67		
Clerks . . . . .	1,097 50		
Other Expenses: —			
Books, printing, postage, supplies, etc. . . . .	\$111 66		
Telephone . . . . .	96 13		
Auto maintenance . . . .	1,396 20		
Instruments and equipment	11 31		
Carfares . . . . .	277 10		
All other . . . . .	1 50		
	<hr/>	14,771 07	
<b>Public Buildings Department, Commis- sioner of Public Buildings.</b>			
Salaries and Wages: —			
Commissioner . . . . .	\$3,100 00		
Inspector of Plumbing . .	1,900 00		
Clerks . . . . .	2,094 42		
Other Expenses: —			
Books, postage and supplies	176 16		
Printing and advertising .	83 50		
Telephone . . . . .	186 32		
Auto Maintenance . . . .	728 84		
All other . . . . .	21 73		
Special Items:—			
Auto . . . . .	1,730 00		
Typewriter . . . . .	101 25		
	<hr/>	10,122 22	
<b>Public Bldgs. Department, Maintenance Municipal Buildings.</b>			
Salaries and Wages:—			
Janitors . . . . .	4,673 30		
Labor . . . . .	736 08		
Other Expenses:—			
Fuel and Light . . . . .	4,115 56		
Furniture and Furnishings .	668 07		
Janitors' Supplies . . . .	278 66		
Repairs to Buildings . . .	192 77		
Heating apparatus and equipment . . . . .	7 00		
Plumbing and supplies . .	267 05		
	<hr/>	<hr/>	
Carried forward . . . . .	\$10,938 49	\$103,910 75	

		Expenses	Outlays
Brought forward . . . . .	\$10,938 49	\$103,910 75	
Hardware and materials . . . . .	41 47		
Ice . . . . .	325 50		
All other . . . . .	23 75		
	<hr/>	11,329 21	
<b>Election Expenses, City Clerk.</b>			
Salaries and Wages:—			
Clerks . . . . .	600 00		
Other Expenses:—			
Equipment, supplies, stationery and postage . . . . .	24 05		
Printing and advertising . . . . .	780 88		
Carfares and auto hire . . . . .	187 50		
Ballot boxes and repairs . . . . .	15 00		
Refreshments . . . . .	14 10		
	<hr/>	1,621 53	
<b>Election Expenses, Registrars of Voters.</b>			
Salaries and Wages:—			
Registrars . . . . .	1,210 00		
Clerks . . . . .	337 00		
Clerical hire . . . . .	1,250 00		
Other Expenses:—			
Stationery and Postage and Supplies . . . . .	99 09		
Printing and advertising . . . . .	1,493 44		
Refreshments . . . . .	9 55		
Car hire . . . . .	36 00		
Registers . . . . .	136 05		
	<hr/>	4,571 13	
<b>Election Expenses, Pay of Election Officers.</b>			
Salaries and Wages:—			
Wardens and clerks . . . . .	920 00		
Inspectors . . . . .	2,223 00		
	<hr/>	3,143 00	
<b>Public Buildings Department, Maintenance Polling Places.</b>			
Labor . . . . .	101 50		
Teaming . . . . .	72 50		
Rent . . . . .	100 00		
Lumber . . . . .	47 83		
Hardware and materials . . . . .	30 96		
Fuel and light . . . . .	28 13		
All other . . . . .	2 85		
Special Item:—			
Signs . . . . .	88 20		
	<hr/>	471 97	
Carried forward . . . . .		<hr/>	\$125,047 59



## PROTECTION OF PERSONS AND PROPERTY.

	Expenses	Outlays
Brought forward . . . .	\$125,047 59	
<b>Extreme Emergency, Health and Safety.</b>		
Salaries and Wages:—		
Clerk . . . . .	60 00	
Other Expenses:—		
Printing . . . . .	4 00	
	<hr/>	64 00
<b>Police Department.</b>		
Salaries and Wages:—		
Chief . . . . .	3,000 00	
Captains and Lieutenants . . . . .	\$12,796 37	
Sergeants and Inspectors . . . . .	12,300 00	
Patrolmen . . . . .	149,122 58	
Special Police . . . . .	47 40	
Matrons . . . . .	989 20	
Other Employees . . . . .	4,557 95	
Horses and Care of Same:—		
Hay, grain and straw . . . . .	41 09	
Shoeing . . . . .	16 00	
All other . . . . .	30 00	
Equipment and Repairs:—		
Motor cycle and auto maintenance . . . . .	2,199 27	
Equipment for men . . . . .	412 83	
All other . . . . .	155 75	
Other Expenses:—		
Books, printing, postage, and supplies . . . . .	346 09	
Care of prisoners . . . . .	53 61	
Telephone . . . . .	309 16	
Laundry . . . . .	51 90	
Travel and disbursements . . . . .	140 50	
Reimbursement for Injuries, etc. . . . .	427 97	
Convention Expenses . . . . .	167 36	
All other . . . . .	56 43	
Special Items:—		
Compensation in case of W. J. Warner . . . . .	1,000 00	
New Motor Equipment . . . . .	530 00	
	<hr/>	
	\$188,751 46	
Less service transfer for horse . . . . .	100 00	
	<hr/>	188,651 46
<b>Public Buildings Department, Maintenance Police Buildings.</b>		
Salaries and Wages:—		
Janitors . . . . .	\$1,990 92	
Labor . . . . .	65 32	
Maintenance of Buildings:—		
Fuel and light . . . . .	2,616 42	
Janitors' supplies . . . . .	71 64	
	<hr/>	
Carried forward . . . . .	\$4,744 30	\$313,699 05
		<hr/>
		\$64 00

		Expenses	Outlays
Brought forward . . . . .	\$4,744 30	\$313,699 05	\$64 00
Furniture and furnishings . . . . .	57 86		
Repairs to buildings . . . . .	16 97		
Heating apparatus and equipment . . . . .	560 30		
Plumbing and supplies . . . . .	92 23		
Hardware and materials . . . . .	126 41		
All other . . . . .	81 93		
	<hr/>	5,680 00	
<b>Fire Department.</b>			
Salaries and Wages:—			
Chief Engineer . . . . .	3,000 00		
Assistant Engineers . . . . .	3,167 73		
Firemen . . . . .	197,700 38		
Callmen . . . . .	104 15		
Temporary and Emergency men . . . . .	1,288 00		
Horses and care of same:—			
Hay, grain and straw . . . . .	2,028 37		
Shoeing . . . . .	992 65		
Medicine and veterinary . . . . .	21 35		
Harnesses, clothing and horses . . . . .	16 75		
All other . . . . .	5 00		
Equipment and Repairs:—			
Apparatus and equipment . . . . .	4,098 89		
Hose . . . . .	1,240 42		
Equipment for men . . . . .	273 50		
Power . . . . .	6 55		
Hardware, tools, etc. . . . .	128 78		
All other . . . . .	15 00		
Other Expenses:—			
Books, printing, postage and supplies . . . . .	122 21		
Telephone . . . . .	491 97		
Janitors' supplies . . . . .	336 99		
Furnishings . . . . .	104 79		
Laundry work . . . . .	458 00		
Convention Expenses . . . . .	157 49		
All other . . . . .	41 01		
Supplies:—			
Grease and oil . . . . .	399 10		
Gasoline . . . . .	1,420 13		
Ice . . . . .	118 71		
Soda and acid . . . . .	325 77		
All other . . . . .	222 95		
	<hr/>		
	\$218,286 64		
Less service transfer for horses, harnesses, etc. . . . .	801 00		
	<hr/>	217,485 64	
<b>Fire Department, Additional Apparatus.</b>			
New Apparatus . . . . .	\$39,300 00		39,300 00
	<hr/>		
Carried forward . . . . .		\$536,864 69	\$39,364 00

	Expenses	Outlays
Brought forward . . . . .	\$536,864 69	\$39,364 00
<b>Public Buildings Department, Maintenance Fire Buildings.</b>		
Salaries and Wages:—		
Labor . . . . .	\$761 39	
Other Expenses:—		
Fuel and light . . . . .	9,307 93	
Furniture and furnishings . . . . .	173 99	
Janitors' supplies . . . . .	.85	
Repairs to buildings . . . . .	799 01	
Heating apparatus and equipment . . . . .	2,369 18	
Plumbing supplies . . . . .	238 47	
Lumber and materials . . . . .	299 67	
All other . . . . .	6 90	
Special Item:—		
Insurance . . . . .	78 83	
	<hr/>	14,036 22
<b>Weights and Measures Department.</b>		
Salaries and Wages:—		
Sealer . . . . .	\$1,800 00	
Helper . . . . .	24 00	
Other Expenses:—		
Books, stationery and post- age . . . . .	10 35	
Printing and advertising . . . . .	46 50	
Equipment and supplies . . . . .	41 24	
Telephone . . . . .	30 03	
Auto maintenance . . . . .	472 67	
All other . . . . .	1 97	
	<hr/>	2,426 76
<b>Electrical Department.</b>		
Salaries and Wages: —		
Commissioner . . . . .	\$2,600 00	
Clerk . . . . .	991 17	
Labor . . . . .	12,097 75	
Other Expenses:—		
Fire Alarm System . . . . .	452 02	
Police Signal System . . . . .	218 46	
Auto maintenance . . . . .	323 20	
Telephone . . . . .	163 58	
Books, printing, postage and supplies . . . . .	188 23	
All other . . . . .	45 14	
	<hr/>	17,079 55
<b>Public Buildings Department, Maintenance Electrical Department Building.</b>		
Labor . . . . .	\$805 40	
Fuel . . . . .	802 84	
Light . . . . .	118 23	
Furniture and furnishings . . . . .	38 25	
	<hr/>	1,764 72
Carried forward . . . . .	<hr/> \$572,171 94	<hr/> \$39,364 00

	Expenses	Outlays
Brought forward . . . . .	\$572,171 94	\$39,364 00
<b>Highways, Suppression of Moths.</b>		
Labor . . . . .	\$3,598 82	
Books, printing, postage . . . . .	11 25	
Hired teams and trucks . . . . .	241 00	
Hardware, tools and equipment . . . . .	289 50	
Insecticides . . . . .	231 09	
Other material and supplies . . . . .	27 50	
	4,399 16	
<b>Highway Department, Care of Trees.</b>		
Labor . . . . .	\$5,213 07	
Teams and trucks . . . . .	1,279 83	
Equipment and tools . . . . .	35 48	
Lumber and materials . . . . .	88 33	
Use of steam roller . . . . .	10 50	
	6,627 21	

### HEALTH AND SANITATION.

	Expenses	Outlays
<b>Health Department.</b>		
General Administration:—		
Agent . . . . .	\$1,600 00	
Clerks . . . . .	2,763 91	
Medical Inspector and Bacteriologist . . . . .	2,500 00	
Acting Medical Inspector . . . . .	94 29	
Acting Bacteriologist . . . . .	47 16	
Health Nurses . . . . .	2,129 02	
Books, printing, and postage . . . . .	429 94	
Carfares, etc. . . . .	281 85	
Telephone . . . . .	290 12	
Typewriter . . . . .	71 15	
All other . . . . .	123 74	
Quarantine and Contagious Diseases:—		
Board and Treatment:—		
Cities and Towns . . . . .	822 33	
Other Institutions . . . . .	499 29	
Tuberculosis:—		
Board and Treatment:—		
Cities and towns . . . . .	1,548 08	
State . . . . .	2,447 40	
Groceries and provisions . . . . .	1,161 31	
All other . . . . .	1 25	
Other Expenses:—		
Equipment and supplies . . . . .	124 47	
Auto maintenance . . . . .	594 73	
Burying dead animals . . . . .	88 50	
	17,618 54	
Carried forward . . . . .	\$600,816 85	\$39,364 00

	Expenses	Outlays
Brought forward . . . . .	\$600,816 85	\$39,364 00
<b>City Clerk's Department, Vital Statistics.</b>		
Canvassing and reporting births . . . . .	\$760 75	
Reporting deaths . . . . .	170 75	
Supplies and postage . . . . .	90 82	
	<hr/>	
		1,022 32
<b>Contagious Hospital.</b>		
Salaries and Wages: —		
Matron . . . . .	\$1,200 00	
Nurses and other help . . . . .	9,587 54	
Other Expenses:—		
Drugs and medicines . . . . .	152 33	
Bedding, dry goods and clothing . . . . .	533 45	
Groceries and provisions . . . . .	6,954 88	
Equipment and supplies . . . . .	1,720 25	
Telephone . . . . .	82 47	
Electric power . . . . .	119 30	
All other . . . . .	163 39	
	<hr/>	
		20,513 61
<b>Public Buildings Department, Maintenance Contagious Hospital.</b>		
Salaries and Wages: —		
Janitor and labor . . . . .	\$888 89	
Other Expenses:—		
Fuel . . . . .	2,610 93	
Light . . . . .	574 33	
Janitors' supplies . . . . .	66 35	
Furniture and furnishings . . . . .	38 30	
Repairs to buildings . . . . .	51 50	
Heating apparatus and equipment . . . . .	36 17	
Plumbing and supplies . . . . .	169 17	
Hardware and materials . . . . .	197 08	
All other . . . . .	14 79	
Special Item:—		
Insurance . . . . .	215 00	
	<hr/>	
		4,862 51
<b>Inspection of Animals and Provisions.</b>		
Salaries and Wages: —		
Inspector . . . . .	\$2,100 00	
Other Expenses:—		
Telephone . . . . .	28 27	
Auto maintenance . . . . .	100 00	
	<hr/>	
		2,228 27
<b>Inspection of Milk and Vinegar.</b>		
Salaries and Wages: —		
Inspector . . . . .	\$2,500 00	
Milk Collector . . . . .	1,500 00	
	<hr/>	
Carried forward . . . . .	\$4,000 00	\$629,443 56
		<hr/>
		\$39,364 00

		Expenses	Outlays
Brought forward . . . . .	\$4,000 00	\$629,443 56	\$39,364 00
<b>Other Expenses:—</b>			
Books, printing and postage . . . . .	13 13		
Auto maintenance . . . . .	844 39		
Equipment and supplies . . . . .	115 47		
Telephone . . . . .	31 94		
Convention Expenses . . . . .	88 62		
Travel . . . . .	143 24		
All other . . . . .	12 56		
	<hr/>	5,249 35	
<b>Inspection of School Children.</b>			
<b>Salaries and Wages:—</b>			
Inspectors . . . . .	\$1,600 00		
<b>Other Expenses:—</b>			
Books, printing, postage and supplies . . . . .	32 15		
Carfares . . . . .	97 85		
	<hr/>	1,730 00	
<b>School Nurses' Salaries.</b>			
<b>Salaries and Wages:—</b>			
Nurses . . . . .	\$2,009 35		
	<hr/>	2,009 35	
<b>Sewers Construction.</b>			
<b>Salaries and Wages:—</b>			
Inspector . . . . .	\$147 99		
Labor . . . . .	2,918 82		
<b>Other Expenses:—</b>			
Teaming . . . . .	1,083 42		
Pipe and fittings . . . . .	112 97		
Brick and cement . . . . .	363 27		
Other materials . . . . .	135 74		
Castings . . . . .	708 60		
All other . . . . .	42 34		
	<hr/>		5,513 15
<b>Engineering Department, Sewers Maintenance.</b>			
<b>Salaries and Wages:—</b>			
Inspector . . . . .	826 33		
Labor . . . . .	13,025 89		
<b>Other Expenses:—</b>			
Teaming . . . . .	9,420 53		
Tools and equipment . . . . .	380 85		
Other material and supplies . . . . .	33 82		
Care of Medford St. pump . . . . .	101 08		
Telephone . . . . .	58 82		
All other . . . . .	7 46		
<b>Special Item:—</b>			
Fire hose . . . . .	120 00		
	<hr/>	23,974 78	
Carried forward . . . . .		<hr/>	<hr/>
		\$62,407 04	\$44,877 15

	Expenses	Outlays
Brought forward . . . . .	\$662,407 04	\$44,877 15

**Public Buildings Department, Maintenance  
Sewer Buildings.**

Salaries and Wages:—		
Labor . . . . .	\$66 39	
Other Expenses:—		
Fuel . . . . .	82 25	
Light . . . . .	21 25	
Repairs to buildings . . . . .	7 06	
Lumber and materials . . . . .	27 17	
All other . . . . .	.57	
	<hr/>	204 69

**Sanitary Department.**

General Administration:—		
Superintendent . . . . .	\$2,300 00	
Bookkeeper . . . . .	300 00	
Printing and stationery . . . . .	31 00	
Telephone . . . . .	54 17	
Auto maintenance . . . . .	646 44	
All other . . . . .	2 85	
Ashes, Rubbish and Garbage:—		
Labor . . . . .	117,060 06	
Hired teams and trucks . . . . .	64,081 59	
Equipment and repairs . . . . .	1,150 64	
Rent of dump . . . . .	1,590 00	
Materials and supplies . . . . .	48 91	
Stable Expenses:—		
Hay, grain and straw . . . . .	6,848 04	
Shoeing . . . . .	491 34	
Veterinary and medicine . . . . .	170 02	
Stable equipment . . . . .	552 01	
Horses . . . . .	200 00	
All other . . . . .	7 35	
	<hr/>	195,534 42

**Public Building Department, Maintenance  
Sanitary Buildings.**

Labor . . . . .	\$96 59	
Fuel . . . . .	428 54	
Light . . . . .	208 73	
Lumber and materials . . . . .	207 17	
Plumbing supplies . . . . .	19 30	
Furniture and furnishings . . . . .	3 40	
Special Item:—		
Repairs to Incinerator . . . . .	1,205 54	
	<hr/>	2,169 27

**Highways, Street Cleaning.**

Labor . . . . .	21,557 34	
Hired teams and trucks . . . . .	5,882 95	
Equipment . . . . .	141 41	
	<hr/>	27,581 70

Carried forward . . . . .	<hr/>	<hr/>
	\$887,897 12	\$44,877 15

## HIGHWAYS.

	Expenses	Outlays
Brought forward . . . . .	\$887,897 12	\$44,877 15
<b>Highway Maintenance.</b>		
General Administration:—		
Superintendent . . . . .	\$3,100 00	
Bookkeeper and clerk . . . . .	2,799 16	
Books, printing, postage and supplies . . . . .	200 56	
Telephone . . . . .	215 71	
Maintenance Superin- tendents' auto . . . . .	602 13	
All other . . . . .	18 45	
General:—		
Labor . . . . .	47,170 94	
Tools, equipment and re- pairs . . . . .	1,673 92	
Autos and supplies . . . . .	2,482 14	
Broken stone, gravel, etc. . . . .	1,449 39	
Edgestones, bricks and cement . . . . .	334 13	
Lumber . . . . .	333 42	
Tarvia and road oil . . . . .	2,714 65	
Fuel . . . . .	702 06	
Oil and waste . . . . .	389 91	
Steam rollers . . . . .	339 04	
Hardware, paint and varnish Other materials and supplies . . . . .	417 07	
Horses . . . . .	591 47	
Hay, grain and straw . . . . .	700 00	
Shoeing . . . . .	8,051 85	
Veterinary and medicine . . . . .	392 21	
Harnesses and horse clothing . . . . .	201 68	
All other . . . . .	550 80	
All other . . . . .	69 65	
Other Expenses:—		
Signs . . . . .	242 89	
Repairs to Bridges . . . . .	45 23	
All other . . . . .	26 07	
Special Item:—		
Concrete mixer . . . . .	367 50	
New trucks . . . . .	1,204 49	
	<hr/>	
	77,386 52	
Less service transfers for teaming and use of rollers . . . . .	20,718 25	
	<hr/>	
		56,668 27
<b>Highways Construction, New Streets.</b>		
Labor . . . . .	\$32 28	
Contracts . . . . .	10,228 26	
Edgestone and circles . . . . .	3,787 25	
Tarvia . . . . .	930 57	
Other materials . . . . .	9 61	
Advertising, recording, etc. . . . .	147 30	
Hired teams and trucks . . . . .	3 13	
All other . . . . .	12 00	
	<hr/>	
Carried forward . . . . .	\$15,150 40	\$44,877 15
	<hr/>	<hr/>
	\$944,565 39	\$44,877 15



		Expenses	Outlays
Brought forward . . . . .	\$15,150 40	\$944,565 39	\$44,877 15
<b>Special Items:—</b>			
Settlement of claim, Central Road . . . . .	300 00		
Damage to Property . . . . .	300 00		
	<hr/>		15,750 40
<b>Highways Construction, Permanent Pavement.</b>			
Labor . . . . .	\$2,919 28		
Contracts . . . . .	75,977 54		
Crushed stone, brick and cement . . . . .	805 44		
Other materials . . . . .	13 00		
Hired teams and trucks . . . . .	872 27		
Use of mixer and roller . . . . .	115 50		
Tarvia . . . . .	698 40		
Equipment . . . . .	109 52		
	<hr/>		81,510 95
<b>Highway Reconstruction and Resurfacing.</b>			
Labor . . . . .	\$8,053 38		
Hired teams and trucks . . . . .	1,653 72		
Use of roller . . . . .	1,209 82		
Tools and equipment . . . . .	527 74		
Tarvia . . . . .	5,729 92		
Brick, stone and cement . . . . .	14,080 88		
Other materials . . . . .	43 30		
	<hr/>		31,298 76
<b>Sidewalks Construction.</b>			
Labor . . . . .	271 67		
Hired teams and trucks . . . . .	43 38		
Contracts . . . . .	14,416 90		
Stone, brick and cement . . . . .	9 39		
Edgestone . . . . .	579 35		
Other materials . . . . .	.65		
Equipment . . . . .	1 00		
All other . . . . .	49 95		
	<hr/>		15,372 29
<b>Sidewalks Maintenance.</b>			
Labor . . . . .	\$5,509 00		
Hired teams and trucks . . . . .	1,358 02		
Use of mixer . . . . .	13 50		
Stone, brick and cement . . . . .	1,366 50		
Other materials and supplies . . . . .	86 98		
	<hr/>	8,334 00	
<b>Street Sprinkling.</b>			
Labor . . . . .	\$5,137 16		
Hired teams and trucks . . . . .	3,675 93		
Equipment and repairs . . . . .	529 13		
Oil and other dust layers . . . . .	24,835 19		
	<hr/>		
Carried forward . . . . .	\$34,177 41	\$952,899 39	\$188,809 55

		Expenses	Outlays
Brought forward . . . . .	\$34,177 41	\$952,899 39	\$188,809 55
Maintenance water post and hydrants . . . . .	194 42		
Use car sprinkler . . . . .	5,550 00		
Hardware and materials . . . . .	50 47		
		39,972 30	
<b>Street Lighting.</b>			
Contract:—			
Electricity . . . . .	\$82,999 47		
Spot lights . . . . .	40 73		
Flood Lights . . . . .	101 97		
Relocating Light . . . . .	220 96		
All other . . . . .	43 17		
		83,406 30	
<b>Public Buildings Department, Maintenance Highway Buildings.</b>			
Labor . . . . .	\$126 68		
Fuel . . . . .	534 78		
Light . . . . .	236 54		
Hardware and materials . . . . .	63 45		
Lumber . . . . .	87 48		
Plumbing supplies . . . . .	89 60		
Furniture and furnishings . . . . .	1 20		
Repairs to buildings . . . . .	26 90		
Heating apparatus and equipment . . . . .	312 51		
All other . . . . .	.90		
		1,480 04	

### CHARITIES.

#### Poor Department, Miscellaneous.

##### General Administration:—

Agent . . . . .	\$2,200 00
Clerks . . . . .	1,880 84
Books, printing, postage and supplies . . . . .	182 72
Telephone . . . . .	121 71
All other . . . . .	40 35

##### Outside Relief:—

City Physician . . . . .	2,200 00
Acting City Physician . . . . .	90 00
Auto maintenance . . . . .	150 00
Board and care . . . . .	4,729 09
Cash . . . . .	19,667 82
Cash allowance . . . . .	544 79
Groceries and provisions . . . . .	2,663 00
Coal and wood . . . . .	1,818 26
Medicine and medical attendance . . . . .	198 04

Carried forward . . . . .	\$36,486 62	\$1,077,758 03	\$188,809 55
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		Expenses	Outlays
Brought forward . . . . .	\$36,486 62	\$1,077,758 03	\$188,809 55
Ambulance hire . . . . .	15 00		
Nursing . . . . .	98 00		
State Institutions . . . . .	1,900 96		
Contagious Hospital . . . . .	33 00		
Somerville Hospital . . . . .	7,754 20		
Other Institutions . . . . .	147 82		
Burials . . . . .	360 00		
All other . . . . .	6 00		
Relief by Other Cities and Town:—			
Cities . . . . .	4,864 64		
Mothers' Aid:—			
By city . . . . .	34,669 15		
Other cities and towns . . . . .	1,146 88		
		87,482 27	

**Poor Department, City Home.**

## Salaries and Wages:—

Warden and Matron . . . . .	\$2,100 00
Bookkeeper . . . . .	137 50
Domestic labor . . . . .	2,644 07
Farm labor . . . . .	2,823 02

## Other Expenses:—

Auto maintenance . . . . .	363 56
Groceries and provisions . . . . .	3,565 64
Clothing . . . . .	215 39
Medicine and hospital goods . . . . .	70 82
Household furnishings and supplies . . . . .	463 41
Farm equipment and supplies . . . . .	617 27
Live stock and care . . . . .	118 00
Garbage . . . . .	398 20
Hay, grain and feed . . . . .	849 81
Horse shoeing . . . . .	55 50
Harnesses and horse cloth- ing . . . . .	2 75
Seeds and fertilizer . . . . .	125 10
Books, printing, stationery and postage . . . . .	13 17
Telephone . . . . .	61 74
Power . . . . .	58 79
Ice . . . . .	131 29
Disinfectant and sprayer . . . . .	7 25
All other . . . . .	247 53

15,069 81

**Public Buildings Department, Maintenance  
City Home Buildings.**

Labor . . . . .	\$84 97
Fuel . . . . .	2,224 86
Light . . . . .	657 46
Furniture and furnishings . . . . .	17 18
Repairs to buildings . . . . .	587 10

Carried forward . . . . .	\$3,571 57	\$1,180,310 11	\$188,809 55
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		Expenses	Outlays
Brought forward . . . .	\$3,571 57	\$1,180,310 11	\$188,809 55
Plumbing and supplies . . . .	129 14		
Hardware and materials . . . .	25 57		
Special Item:—			
Insurance . . . . .	126 75		
	<hr/>	3,853 03	

### SOLDIERS' BENEFITS.

#### Soldiers' Benefits.

Cash advanced for immediate aid . . . .	\$100 00	100 00
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#### Soldiers' Benefits, General Administration.

##### Salaries and Wages:—

Agent . . . . .	300 00	
Clerk . . . . .	991 17	
Other Expenses . . . . .	55 78	
Special Item:—		
Typewriter . . . . .	50 00	
	<hr/>	1,396 95

#### Soldiers' Relief.

Cash as per pay rolls . . . .	\$32,584 00	
Medicine and medical attendance . . . . .	38 70	
All other . . . . .	8 33	
	<hr/>	32,631 03

#### Military Aid.

Cash as per pay rolls . . . .	\$5,247 00	5,247 00
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#### State Aid.

Cash as per pay rolls . . . .	9,140 00	9,140 00
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#### Soldiers' Burials.

Burials . . . . .	60 00	60 00
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### EDUCATION.

#### School Contingent.

##### Salaries and Wages:—

Superintendent . . . . .	\$5,000 00	
Clerks . . . . .	5,901 21	
Truant Officers . . . . .	1,800 00	
Other employees . . . . .	218 89	

##### General Expenses:—

Stationery, postage and office supplies . . . . .	532 74	
Telephones . . . . .	1,115 52	
Automobile maintenance . . . . .	447 55	
Travel . . . . .	516 91	
All other . . . . .	326 81	
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Carried forward . . . . .	\$15,859 63	\$1,232,738 12	\$188,809 55
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		Expenses	Outlays
Brought forward . . . . .	\$15,859 63	\$1,232,738 12	\$188,809 55
<b>Textbooks and Supplies:—</b>			
Text and reference books and music . . . . .	9,469 56		
Maps . . . . .	119 66		
Stationery and supplies . . . . .	15,957 48		
Equipment and repairs . . . . .	2,949 06		
<b>Other Expenses:—</b>			
Tuition . . . . .	813 01		
Support of truants . . . . .	1,004 15		
Diplomas and graduation . . . . .	553 60		
Printing and advertising . . . . .	1,209 81		
Catering . . . . .	197 52		
Power . . . . .	882 03		
Binding . . . . .	1,197 95		
All other . . . . .	12 00		
<b>Special Item:—</b>			
Pianos . . . . .	842 50		
		51,067 96	
<b>School Teachers' Salaries.</b>			
Day Schools . . . . .	\$699,369 94		
Evening Schools . . . . .	11,549 01		
		710,918 95	
<b>Public Buildings Department, Maintenance School Buildings, Janitors' Salaries.</b>			
Janitors' Salaries . . . . .	\$60,742 33		60,742 33
<b>Maintenance School Buildings, Fuel and Light.</b>			
Labor . . . . .	\$604 00		
Fuel . . . . .	49,764 23		
Light . . . . .	11,278 45		
		61,646 68	
<b>Maintenance School Buildings, Buildings and Grounds.</b>			
Labor . . . . .	\$7,909 52		
Furniture and furnishings . . . . .	6,265 26		
Janitors' Supplies . . . . .	3,040 90		
Laundry . . . . .	42 45		
Repairs to buildings . . . . .	3,789 65		
Heating apparatus and equip- ment . . . . .	5,684 39		
Plumbing . . . . .	2,258 31		
Glass, hardware and paint . . . . .	2,105 80		
Lumber . . . . .	1,500 02		
Other materials and supplies . . . . .	1,018 49		
Care of grounds . . . . .	1,390 10		
Flags and flag poles . . . . .	108 86		
Auto maintenance . . . . .	1,993 45		
Power . . . . .	304 54		
Carried forward . . . . .	\$37,411 74	\$2,117,114 04	\$188,809 55

		Expenses	Outlays
Brought forward . . . . .	\$37,411 74	\$2,117,114 04	\$188,809 55
Insurance . . . . .	298 00		
Use of Y. M. C. A. Gymnasium . . . . .	350 00.		
Use of Armory . . . . .	150 00		
Armorer . . . . .	50 00		
All other . . . . .	1,455 45		
	<hr/>	39,715 19	

## SCHOOL TRUST FUNDS.

## S. Newton Cutler Fund.

Books . . . . .	\$91 20	91 20
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## Smith-Hughes Fund.

School Teachers' Salaries . . . . .	\$2,583 10	2,583 10
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## Caroline G. Baker Fund.

Christmas celebration . . . . .	\$9 00	9 00
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## LIBRARIES.

## Central Library.

## Salaries and Wages:—

Librarian . . . . .	\$3,000 00
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Assistants . . . . .	15,975 17
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## Other Expenses:—

Books . . . . .	3,411 35
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Periodicals . . . . .	671 24
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Music . . . . .	3 22
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Binding . . . . .	1,547 26
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Postage and office supplies . . . . .	920 57
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Printing and advertising . . . . .	530 47
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Telephone . . . . .	191 56
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Catalogue cards . . . . .	100 00
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Express . . . . .	118 84
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Convention expenses . . . . .	52 37
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All other . . . . .	107 47
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## Special Item:—

Adding Machine . . . . .	100 00
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<hr/>	26,729 52
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Public Buildings Department, Maintenance  
Central Library.

Janitors . . . . .	\$3,148 30
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Labor . . . . .	86 57
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Fuel . . . . .	990 50
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Light . . . . .	1,499 39
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Furniture and furnishings . . . . .	146 96
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Janitors' supplies . . . . .	104 70
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Repairs to buildings . . . . .	169 58
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Plumbing . . . . .	24 94
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Hardware and materials . . . . .	11 43
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All other . . . . .	4 75
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<hr/>	6,187 12
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Carried forward . . . . .	<hr/>	\$2,192,429 17	<hr/>	\$188,809 55
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	Expenses	Outlays
Brought forward . . . . .	\$2,192,429 17	\$188,809 55

**West Somerville Branch Library.**

## Salaries and Wages:—

Assistants . . . . .	\$5,329 42
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## Other Expenses:—

Books . . . . .	1,082 19
Periodicals . . . . .	344 59
Music . . . . .	2 75
Binding . . . . .	596 69
Postage and office supplies	115 90
Printing and advertising .	50 75
Telephone . . . . .	36 74
Express . . . . .	202 01
All other . . . . .	28 78

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 7,789 82

**Public Buildings Department, Maintenance  
West Somerville Branch Library.**

Janitor . . . . .	\$1,378 00
Labor . . . . .	120 75
Fuel . . . . .	560 14
Light . . . . .	467 40
Repairs to buildings and plumbing . . . . .	31 20
Furniture and furnishings .	16 00
Janitors' supplies . . . . .	12 50
Heating apparatus and equip- ment . . . . .	13 64
Hardware and materials . .	120 98
All other . . . . .	46 26

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 2,766 87
**East Somerville Branch Library.**

## Salaries and Wages:—

Assistants . . . . .	\$3,138 83
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## Other Expenses:—

Books . . . . .	955 55
Periodicals . . . . .	139 65
Music . . . . .	35 89
Binding . . . . .	300 34
Postage and office supplies	58 61
Printing and advertising .	38 50
Telephone . . . . .	36 00
Express . . . . .	185 82
All other . . . . .	20 00

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 4,909 19

**Public Buildings Department, Maintenance  
East Somerville Branch Library.**

Janitor . . . . .	\$1,113 00
Labor . . . . .	13 57
Fuel . . . . .	527 19
Light . . . . .	239 57
Janitors' Supplies . . . . .	1 85
Furniture and furnishings .	.25

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Carried forward . . . . .	\$1,895 43	\$2,207,895 05	\$188,809 55
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		Expenses	Outlays
Brought forward . . . . .	\$1,895 43	\$2,207,895 05	\$188,809 55
Repairs to buildings and plumbing . . . . .	10 70		
All other . . . . .	28 28		
	<hr/>	1,934 41	
<b>Union Square Branch Library.</b>			
Salaries and Wages:—			
Assistants . . . . .	\$3,653 49		
Other Expenses:—			
Books . . . . .	709 14		
Periodicals . . . . .	141 35		
Binding . . . . .	266 29		
Postage and office supplies . . . . .	106 57		
Printing and advertising . . . . .	39 75		
Telephone . . . . .	41 08		
Express . . . . .	202 01		
All other . . . . .	20 00		
	<hr/>	5,179 68	
<b>Public Buildings Department, Maintenance Union Square Branch Library.</b>			
Janitor . . . . .	\$1,113 00		
Labor . . . . .	11 38		
Fuel . . . . .	573 95		
Light . . . . .	298 68		
Janitors' Supplies . . . . .	4 00		
Heating apparatus and equipment . . . . .	.60		
Plumbing and repairs to building . . . . .	18 00		
Hardware and materials . . . . .	30 04		
All other . . . . .	1 25		
	<hr/>	2,050 90	

## PUBLIC LIBRARY TRUST FUNDS.

		Expenses	Outlays
<b>S. Newton Cutler Fund.</b>			
Books . . . . .	\$30 07		
	<hr/>	30 07	
<b>Martha R. Hunt Art Fund.</b>			
Books and pictures . . . . .	\$187 35		
	<hr/>	187 35	
<b>Martha R. Hunt Book Fund.</b>			
Books . . . . .	\$445 24		
	<hr/>	445 24	
<b>Isaac Pitman Art Fund.</b>			
Books . . . . .	\$89 55		
Pictures . . . . .	40 00		
Filing cabinet . . . . .	32 00		
	<hr/>	161 55	
Carried forward . . . . .		<hr/>	<hr/>
		\$2,217,884 25	\$188,809 55



	Expenses	Outlays
Brought forward . . . . .	\$2,217,884 25	\$188,809 55
Isaac Pitman Poetry Fund.		
Books . . . . .	\$46 46	
	<u>46 46</u>	

## RECREATION.

## Engineering Department, Parks Maintenance.

Labor . . . . .	\$9,130 24	
Teaming . . . . .	724 45	
Tools and equipment . . . . .	368 12	
Materials and supplies . . . . .	84 56	
Trees, shrubs and plants . . . . .	524 50	
Repairs . . . . .	74 54	
Flags and flag poles . . . . .	41 25	
Care of bubblers and fountains . . . . .	155 88	
All other . . . . .	.75	
Special Item:—		
Repairs to Powder House Boulevard . . . . .	45 30	
	<u>11,149 59</u>	

## Public Buildings Department, Maintenance Park Buildings.

Labor . . . . .	\$393 66	
Fuel . . . . .	202 95	
Light . . . . .	557 68	
Repairs to buildings . . . . .	4 31	
Heating apparatus and equipment . . . . .	38 50	
Plumbing . . . . .	76 33	
Hardware and materials . . . . .	8 70	
Laundry and janitors' supplies . . . . .	214 78	
All other . . . . .	94 97	
Special Item:—		
Bronze tablet, Dilboy Field . . . . .	929 32	
	<u>2,521 20</u>	

## Engineering Department, Playgrounds Maintenance.

Labor . . . . .	\$2,942 51	
Teaming . . . . .	1,203 30	
Tools and equipment . . . . .	58 15	
Materials and supplies . . . . .	197 40	
Repairs to fountains, fences, etc. . . . .	74 72	
Use of roller . . . . .	104 70	
Repairing seats . . . . .	626 38	
Special Item:—		
Rebuilding grandstand, Dilboy Field . . . . .	6,252 13	
Stands, Trum Field . . . . .	310 65	
	<u>11,769 94</u>	

Carried forward . . . . .	\$2,243,371 44	\$188,809 55
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	Expenses	Outlays
Brought forward . . . . .	\$2,243,371 44	\$188,809 55
<b>Recreation and Playground Commission.</b>		
Salaries and Wages:—		
Supervisors . . . . .	\$1,344 39	
Instructors . . . . .	1,558 00	
Social Worker . . . . .	460 19	
Other Helpers . . . . .	270 75	
Other Expenses:—		
Equipment and supplies . . . . .	1,071 04	
Plowing, harrowing, etc . . . . .	168 00	
Teaming . . . . .	173 25	
Use of auto . . . . .	333 39	
Civic social centre . . . . .	126 66	
All other . . . . .	116 80	
Special Items:—		
Demonstration work in ag- riculture . . . . .	100 00	
Repairing wading-pool . . . . .	124 25	
	<hr/>	5,846 72
<b>Public Buildings Department, Mainte- nance Bathhouse.</b>		
Salaries and Wages:—		
Attendants . . . . .	\$1,044 87	
Labor . . . . .	38 95	
Other Expenses:—		
Bathing suits . . . . .	310 73	
Towels . . . . .	30 26	
Repairs to buildings . . . . .	37 22	
Equipment and supplies . . . . .	40 22	
Sand . . . . .	477 75	
Telephone . . . . .	35 50	
Laundry . . . . .	256 95	
Hardware and materials . . . . .	6 91	
All other . . . . .	5 81	
Special Item:—		
Insurance . . . . .	97 00	
	<hr/>	2,382 17
<b>Celebrations.</b>		
Printing and postage . . . . .	\$2 50	
Music . . . . .	390 30	
Decorating . . . . .	143 91	
Fire works . . . . .	1,118 51	
All other . . . . .	40 11	
Special Item:—		
Stands for Firemens' Muster . . . . .	456 45	
	<hr/>	2,151 78
Carried forward . . . . .	<hr/>	<hr/>
	\$2,253,752 11	\$188,809 55

## UNCLASSIFIED.

	Expenses	Outlays
Brought forward . . . . .	\$2,253,752 11	\$188,809 55
<b>Memorial Day.</b>		
Music and catering . . . . .	\$288 25	
Flowers and flags . . . . .	104 47	
Speeches . . . . .	30 00	
All other . . . . .	38 73	
	<hr/>	
		461 45
<b>Public Buildings Department, Maintenance Bandstand.</b>		
Labor . . . . .	\$82 92	
Teaming . . . . .	156 00	
All other . . . . .	9 75	
	<hr/>	
		248 67
<b>Rifle Practice, Cos. A. and B., First Engineers.</b>		
Transportation . . . . .	\$259 78	
Use of Rifle Range . . . . .	114 50	
	<hr/>	
		374 28
<b>Municipal Documents.</b>		
Printing:—		
Annual reports . . . . .	\$1,714 38	
Municipal registers . . . . .	8 75	
All other . . . . .	55 47	
	<hr/>	
		1,778 60
<b>Quarters for American Legion.</b>		
Rent . . . . .	\$475 00	
	<hr/>	
		475 00
<b>Workmen's Compensation.</b>		
Compensation for injuries . . . . .	\$3,809 65	
Medical attendance . . . . .	382 50	
Postage and supplies . . . . .	17 00	
Legal services . . . . .	100 00	
	<hr/>	
		4,309 15
<b>Pensions.</b>		
Janitors . . . . .	\$1,708 78	
Police . . . . .	10,252 62	
Fire . . . . .	4,622 56	
Weights and Measures . . . . .	812 50	
Health . . . . .	750 00	
Poor . . . . .	850 00	
Laborers:—		
Engineers' . . . . .	24 00	
Highway . . . . .	8,463 93	
Sanitary . . . . .	4,478 40	
Water . . . . .	2,483 46	
	<hr/>	
		34,446 25
<b>Damage to Persons and Personal Property.</b>		
Settlement of claims . . . . .	\$2,988 88	
	<hr/>	
		2,988 88
Carried forward . . . . .	<hr/>	<hr/>
	\$2,298,834 39	\$188,809 55

## MUNICIPAL INDEBTEDNESS.

	Expenses	Outlays
Brought forward . . . .	\$2,298,834 39	\$188,809 55
Interest.		
Temporary loans:—		
Anticipation of Revenue . . . .	\$63,792 63	
General Loans:—		
Sewer . . . . .	8,856 25	
Highway . . . . .	11,011 67	
Municipal . . . . .	1,035 00	
City . . . . .	11,767 50	
Bridge . . . . .	997 50	
Metropolitan Park . . . . .	315 00	
Public Buildings . . . . .	10,315 00	
Emergency . . . . .	425 00	
	<hr/>	108,515 55
Reduction of Funded Debt.		
General Loans:—		
Sewer . . . . .	\$23,000 00	
Highway . . . . .	64,000 00	
Municipal . . . . .	8,000 00	
City . . . . .	68,500 00	
Bridge . . . . .	1,000 00	
Metropolitan Park . . . . .	1,000 00	
Public Buildings . . . . .	24,000 00	
Emergency . . . . .	5,000 00	
	<hr/>	194,500 00

## WATER WORKS.

Water Maintenance.		
Administration:—		
Commissioner . . . . .	\$3,100 00	
Clerks . . . . .	7,431 71	
Books, printing, postage and supplies . . . . .	1,863 99	
Telephone . . . . .	253 91	
All other . . . . .	56 90	
Convention expenses . . . . .	45 72	
General:—		
Labor . . . . .	41,744 92	
Pipe and fittings . . . . .	2,117 44	
Hydrants and fittings . . . . .	875 84	
Tools . . . . .	1,249 62	
Autos, trucks and supplies . . . . .	3,914 81	
Horses and equipment . . . . .	197 58	
Power . . . . .	25 54	
Miscellaneous supplies . . . . .	212 56	
Street repairs . . . . .	127 93	
Fountains . . . . .	34 08	
Contract work . . . . .	324 00	
All other . . . . .	61 11	
Special Item:—		
New Trucks . . . . .	4,000 00	
	<hr/>	67,637 66
Carried forward . . . . .	<hr/> \$67,637 66	<hr/> \$2,601,849 94
		<hr/> \$188,809 55

		Expenses	Outlays
Brought forward . . . . .	\$67,637 66	\$2,601,849 94	\$188,809 55
Less service transfers for teaming and meters . . . . .	<u>277 30</u>	67,360 36	

**Water Works Extension.**

Labor . . . . .	\$3,436 56		
Hired teams and trucks . . . . .	6 75		
Pipe and fittings . . . . .	5,569 20		
Meters and fittings . . . . .	6,689 43		
Hydrants and fittings . . . . .	249 35		
All other . . . . .	<u>7 25</u>	15,958 54	

**Public Buildings Department, Maintenance Water Buildings.**

Labor . . . . .	\$193 61		
Fuel . . . . .	404 68		
Light . . . . .	350 01		
Lumber and materials . . . . .	81 72		
Repairs to buildings . . . . .	5 75		
Heating apparatus and equip- ment . . . . .	1,242 50		
All other . . . . .	<u>29 66</u>		
Special Item:— Fire hose . . . . .	135 00	2,442 93	

**Metropolitan Water Assessment.**

Assessment . . . . .	<u>\$133,989 84</u>	133,989 84	
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**OTHER ACCOUNTS.****Temporary Loans.**

Loans in anticipation of revenue . . . . .	<u>\$1,967,000 00</u>	1,967,000 00	
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**Tax Titles.**

Taxes 1920 . . . . .	\$3,222 68		
Recording deeds . . . . .	<u>9 60</u>	3,232 28	

**Real Estate Liens.**

Taxes 1920 on property taken by the city . . . . .	<u>12 36</u>	12 36	
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**State Taxes.**

State . . . . .	\$245,420 00		
Special State . . . . .	11,569 80		
Non-Resident Bank . . . . .	<u>4,164 61</u>		
Carried forward . . . . .	\$261,154 41	\$4,791,846 25	\$188,809 55

		Expenses	Outlays
Brought forward . . . . .	\$261,154 41	\$4,791,846 25	\$188,809 55
Poll Taxes, Chap. 283, Acts 1919 . . . . .	<u>73,659 00</u>		
		334,813 41	
<b>Metropolitan and Other Assessments.</b>			
Metropolitan Park . . . . .	\$63,298 07		
Metropolitan Sewer . . . . .	111,731 59		
Wellington Bridge . . . . .	3,243 72		
Grade Crossings . . . . .	7,956 60		
State Highway . . . . .	302 93		
Charles River Basin . . . . .	10,037 81		
Alewife Brook . . . . .	1,112 01		
Abatement of Smoke . . . . .	400 75		
Prevention of Fire . . . . .	847 79		
Soldiers' Exemption . . . . .	379 07		
Transportation Dorchester Dis- trict . . . . .	<u>420 82</u>		
		199,731 16	
<b>County of Middlesex.</b>			
County Tax, 1921 . . . . .	<u>\$130,844 89</u>		
		130,844 89	
<b>Cash Refunds.</b>			
Taxes . . . . .	\$394 64		
Street Sprinkling Assessment . . . . .	74 46		
Water Rates . . . . .	<u>652 02</u>		
		1,121 12	
<b>Tellers' Overs and Shorts.</b>			
Cash shortage . . . . .	<u>\$42 58</u>		
		42 58	
<b>PRIVATE TRUST.</b>			
<b>Trust Fund Investment.</b>			
Caroline G. Baker fund . . . . .	<u>\$300 00</u>		
		300 00	
<b>Redemption of Tax Titles.</b>			
Tax titles redeemed . . . . .	<u>\$2,941 38</u>		
		2,941 38	
Totals . . . . .		<u>\$5,461,640 79</u>	<u>\$188,809 55</u>
*Appropriation Refunds . . . . .		3,456 77	
		<u>\$5,465,097 56</u>	<u>\$188,809 55</u>
Total Cash Payments . . . . .			<u>\$5,653,907 11</u>

\* Expenditures as shown in all accounts are net.

## SCHEDULE OF PUBLIC PROPERTY.

School Buildings	Land and Buildings	Personal	Totals
Prescott . . . . .	\$72,200 00	\$3,000 00	\$75,200 00
East Somerville Junior High	62,000 00	2,000 00	64,000 00
Hanscom . . . . .	66,500 00	4,000 00	70,500 00
Davis . . . . .	53,500 00	17,500 00	71,000 00
Clark Bennett . . . . .	54,500 00	3,500 00	58,000 00
Knapp . . . . .	53,000 00	5,500 00	58,500 00
Baxter . . . . .	39,200 00	1,500 00	40,700 00
Perry . . . . .	52,000 00	1,500 00	53,500 00
Bell and Southern Junior High	137,000 00	10,000 00	147,000 00
Prospect Hill . . . . .	18,000 00	2,000 00	20,000 00
Pope . . . . .	83,600 00	5,000 00	88,600 00
Cummings . . . . .	15,400 00	1,500 00	16,900 00
Edgerly . . . . .	43,000 00	5,000 00	48,000 00
* High . . . . .	396,000 00	30,000 00	426,000 00
Glines . . . . .	96,400 00	5,000 00	101,400 00
Forster . . . . .	64,000 00	8,000 00	112,000 00
Forster (Annex) . . . . .	40,000 00	.....	.....
† Proctor . . . . .	44,000 00	.....	44,000 00
Bingham . . . . .	77,000 00	5,000 00	82,000 00
Morse . . . . .	54,000 00	5,000 00	59,000 00
Carr . . . . .	58,600 00	4,500 00	68,100 00
Girls' Industrial School . . . . .	4,000 00	1,000 00	.....
Durell . . . . .	21,400 00	1,500 00	22,900 00
Burns . . . . .	44,000 00	3,000 00	47,000 00
Brown . . . . .	78,000 00	2,600 00	80,600 00
Highland . . . . .	66,600 00	5,000 00	71,600 00
Lowe . . . . .	51,000 00	2,000 00	53,000 00
Hodgkins . . . . .	98,700 00	5,000 00	103,700 00
x West Somerville Junior High	80,000 00	4,000 00	84,000 00
Lincoln . . . . .	19,800 00	1,000 00	20,800 00
Cutler . . . . .	98,700 00	10,000 00	108,700 00
Total . . . . .	\$2,142,100 00	\$154,600 00	\$2,296,700 00

\* Land included in Central Hill Park.

† Building and fixtures. Land owned by State.

x Land included in Holland Street Ledge.

School Buildings	Land and Buildings	Personal	Totals
<b>Fire Buildings.</b>			
New fire alarm building . . . . .	\$27,500 00	*\$40,000 00	\$115,200 00
Central . . . . .	47,700 00	.....	.....
Engine Two . . . . .	37,000 00	21,000 00	58,000 00
Engine Six . . . . .	29,000 00	20,000 00	49,000 00
Hose Five . . . . .	23,500 00	8,000 00	31,500 00
Ladder One . . . . .	60,000 00	21,000 00	81,000 00
Hose Eight . . . . .	11,200 00	10,000 00	21,200 00
Ladder Two . . . . .	19,700 00	15,000 00	34,700 00
Engine Four . . . . .	19,500 00	7,000 00	26,500 00
Total . . . . .	\$275,100 00	\$142,000 00	\$417,100 00

\* Includes Electrical Department equipment.

#### Libraries.

†Central . . . . .	\$137,500 00	\$100,000 00	\$237,500 00
East Somerville Branch . . . . .	24,400 00	.....	24,400 00
West Somerville Branch . . . . .	30,000 00	6,000 00	36,000 00
Total . . . . .	\$191,900 00	\$106,000 00	\$297,900 00

#### Miscellaneous Buildings.

Highway (stables, etc.) . . . . .	\$55,000 00	\$30,000 00	\$85,000 00
Sewer . . . . .	6,700 00	500 00	7,200 00
Contagious and Tuberculosis			
Hospital . . . . .	47,900 00	9,000 00	56,900 00
City Home . . . . .	94,600 00	17,000 00	111,600 00
Police . . . . .	69,500 00	8,000 00	77,500 00
†City Hall . . . . .	57,200 00	149,000 00	206,200 00
†City Hall Annex . . . . .	68,200 00	12,500 00	80,700 00

#### Parks:—

Broadway . . . . .	3,100 00	.....	3,100 00
Lincoln . . . . .	3,000 00	.....	3,000 00
Bathhouse . . . . .	5,000 00	.....	5,000 00
Polling Booths . . . . .	1,800 00	.....	1,800 00
Sanitary . . . . .	21,000 00	19,200 00	40,200 00
Water . . . . .	49,000 00	6,500 00	55,500 00
Total . . . . .	\$482,000 00	\$251,700 00	\$733,700 00

† Land included in Central Hill Park.

#### Parks and Playgrounds.

	Land and Buildings	Personal	Totals
Saxton C. Foss Park . . . . .	\$421,200 00	.....	\$421,200 00
Central Hill . . . . .	472,000 00	.....	472,000 00
Lincoln . . . . .	84,500 00	\$3,500 00	88,000 00
Prospect Hill . . . . .	69,800 00	1,500 00	71,300 00
Tufts . . . . .	109,000 00	.....	109,000 00
Paul Revere . . . . .	1,000 00	.....	1,000 00
Belmont Street . . . . .	5,100 00	.....	5,100 00
Trum Playground . . . . .	70,900 00	.....	70,900 00
Carried forward . . . . .	\$1,233,500 00	\$5,000 00	\$1,238,500 00



Brought forward . . . . .	\$1,233,500 00	\$5,000 00	\$1,238,500 00
Glen Street . . . . .	17,300 00	.....	17,300 00
Kent Street . . . . .	12,000 00	.....	12,000 00
Poplar Street . . . . .	5,800 00	.....	5,800 00
Beacon Street . . . . .	3,000 00	.....	3,000 00
Mason Street . . . . .	4,200 00	.....	4,200 00
Dilboy Field . . . . .	40,000 00	20,000 00	60,000 00
<b>Total . . . . .</b>	<b>\$1,315,800 00</b>	<b>\$25,000 00</b>	<b>\$1,340,800 00</b>

**Miscellaneous Land.**

Ledge, Holland Street . . . . .	\$54,500 00	.....	\$54,500 00
Somerville Avenue . . . . .	300 00	.....	300 00
Putnam . . . . .	400 00	.....	400 00
Murdock Street . . . . .	600 00	.....	600 00
Lowell Street . . . . .	100 00	.....	100 00
Spencer Avenue . . . . .	100 00	.....	100 00
Weston Avenue . . . . .	2,100 00	.....	2,100 00
Endicott Avenue . . . . .	600 00	.....	600 00
Powder House Boulevard . . . . .	400 00	.....	400 00
Waltham Gravel Land . . . . .	10,000 00	.....	10,000 00
<b>Total . . . . .</b>	<b>\$69,100 00</b>	<b>.....</b>	<b>\$69,100 00</b>

**SUMMARY.**

	Land and Buildings	Personal	Totals
School buildings . . . . .	\$2,142,100 00	\$154,600 00	\$2,296,700 00
Fire Buildings . . . . .	275,100 00	142,000 00	417,100 00
Libraries . . . . .	191,900 00	106,000 00	297,900 00
Miscellaneous Buildings . . . . .	482,000 00	251,700 00	733,700 00
Parks and Playgrounds . . . . .	1,315,800 00	25,000 00	1,340,800 00
Miscellaneous Land . . . . .	69,100 00	.....	69,100 00
<b>Total . . . . .</b>	<b>\$4,476,000 00</b>	<b>\$679,300 00</b>	<b>\$5,155,300 00</b>
Sewers (cost) . . . . .			1,362,272 00
Water Works (cost) . . . . .			1,095,206 73
<b>Total value public property</b>			<b>\$7,612,778 73</b>

## REPORT OF THE TREASURER AND COLLECTOR OF TAXES

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Somerville, Mass.,  
January 17, 1922.

To the Honorable, the Mayor and the Board of Aldermen of the  
City of Somerville:

Gentlemen:—

I herewith present the annual report of the City Treasurer  
and Collector of Taxes for the year 1921.

Respectfully submitted,

JOSEPH S. PIKE,

*City Treasurer and Collector of Taxes.*

## CONDENSED CASH STATEMENT.

	Receipts		Payments
Revenue . . . . .	\$5,467,283 50		\$5,467,102 43
Non-Revenue . . . . .	52,941 38		186,804 68
	<hr/>		<hr/>
	\$5,520,224 88		\$5,653,907 11
Cash Balance January 1, 1921 . . . . .	294,916 43	Cash balance December 31, 1921 . . . . .	161,234 20
	<hr/>		<hr/>
	<u>\$5,815,141 31</u>		<u>5,815,141 31</u>

## DETAILED CASH STATEMENT.

	Receipts.	
Balance from 1920 . . . . .		\$294,916 43
<b>Revenue</b>		
Taxes, 1917 . . . . .	\$4 40	
1918 . . . . .	105 52	
1919 . . . . .	164 84	
1920 . . . . .	391,939 85	
1921 . . . . .	2,354,775 34	
	<hr/>	\$2,746,989 95
Excise Taxes, 1920 . . . . .	313 42	
Excise Taxes, 1921 . . . . .	33 82	
	<hr/>	347 24
Street Sprinkling, 1920 . . . . .	7,490 70	
1921 . . . . .	36,723 95	
	<hr/>	44,214 65
Highway Assessments, 1919 . . . . .	1,330 60	
1920 . . . . .	2,927 78	
1921 . . . . .	2,089 65	
	<hr/>	6,348 03
Sidewalk Assessments, 1919 . . . . .	1,074 85	
1920 . . . . .	2,925 68	
1921 . . . . .	913 65	
	<hr/>	4,914 18
Sewer Assessments, 1921 . . . . .		194 28
Metered Water Charges, 1920 . . . . .		26,908 99
Water: Sales, 1921 . . . . .	228,095 14	
Maintenance . . . . .	6,375 07	
Service Assessments . . . . .	5,408 19	
	<hr/>	239,878 40
Tax Titles . . . . .		6,670 25
Revenue Loans (Temporary) . . . . .		1,927,000 00
Departmental Deposits . . . . .	16,899 29	
Departmental Accounts . . . . .	70,717 07	
	<hr/>	87,616 36
Commonwealth of Massachusetts:—		
Corporation Taxes:		
Business . . . . .	37,754 76	
Public Service, etc. . . . .	14,191 54	
Bank . . . . .	9,567 23	
Street Railway . . . . .	11,527 73	
	<hr/>	73,041 26
Carried forward . . . . .		<hr/> <u>\$5,164,123 59</u> <u>\$294,916 43</u>

Brought forward . . . . .		\$5,164,123 59	\$294,916 43
Foreign Corporation, 1920	13,016 70		
1921	37,110 89		
		<hr/>	50,127 59
Income Tax, 1918 . . . . .	1,596 00		
1919 . . . . .	5,259 00		
1920 . . . . .	26,295 00		
1921 . . . . .	129,504 40		
		<hr/>	162,654 40
For Schools:			
Vocational Schools . . . . .	12,869 91		
Continuation Schools . . . . .	262 50		
Americanization Work . . . . .	3,115 26		
		<hr/>	16,247 67
Soldiers' Benefits . . . . .			11,426 75
In lieu of taxes . . . . .			94 26
Poll taxes, 1920 . . . . .			1,098 00
County of Middlesex:			
Dog licenses . . . . .			1,939 18
Courts: Police . . . . .	4,014 17		
Probation Officer . . . . .	25 50		
		<hr/>	4,039 67
Departmental Penalties:			
Callmen, Fire Dept. . . . .	17 00		
School Dept. . . . .	168 00		
		<hr/>	185 00
Licenses and Permits . . . . .			12,063 52
Interest: On taxes . . . . .	14,584 59		
Assessments . . . . .	236 31		
Tax Titles . . . . .	739 01		
Departmental Ac- counts . . . . .	18 32		
Bank Accounts:			
Treasurer . . . . .	8,540 67		
		<hr/>	24,118 90
Treasury Department:			
Costs: Taxes . . . . .	5,153 03		
Assessments . . . . .	17 70		
Tax Titles . . . . .	38 45		
Miscellaneous . . . . .	16 65		
Tax lien certificates . . . . .	542 00		
Redemption tax liens . . . . .	21 00		
Collecting Bank tax . . . . .	41 63		
		<hr/>	5,830 46
Edison Electric Illuminating Co., electrolysis . . . . .	500 00		
Miscellaneous . . . . .	45 82		
		<hr/>	545 82
Sale of land, Webster Ave. . . . .			5,027 43
General Expenses, refunds . . . . .			3,117 44
Trust Funds, Principal:			
School, Baker Fund . . . . .			300 00
Trust Funds, Income:			
School, Cutler Fund . . . . .	214 50		
Baker Fund . . . . .	12 38		
Smith-Hughes Fund . . . . .	2,845 75		
		<hr/>	3,072 63
Carried forward . . . . .		\$5,466,012 31	\$294,916 43

Brought forward . . . . .		\$5,466,012 31	\$294,916 43
Library, Cutler Fund . . . . .	42 88		
Hunt, Art Fund . . . . .	100 00		
Hunt, Book Fund . . . . .	495 29		
Pitman, Art Fund . . . . .	171 32		
Pitman Poetry F'nd . . . . .	42 82		
Wilder, Child's F'nd . . . . .	4 50		
		<hr/>	
		856 81	
Poor, Olive C. Cummings . . . . .		75 05	
Accrued Interest . . . . .		333 33	
Excess and Deficiency . . . . .		6 00	
		<hr/>	
		\$5,467,283 50	\$294,916 43
 <b>Non-Revenue</b>			
Funded Debt, Highway Loan bonds . . . . .	50,000 00		
Redemption of Tax Liens . . . . .	2,941 38	52,941 38	5,520,224 88
		<hr/>	
			<hr/>
			\$5,815,141 31

PAYMENTS.

<b>Revenue</b>			
Advances, (Soldiers' Benefits) . . . . .		\$100 00	
Taxes, 1919, refunds . . . . .	\$6 00		
1920, refunds . . . . .	109 07		
1921, refunds . . . . .	279 57		
		<hr/>	
		394 64	
Street Sprinkling, 1921 (refunds) . . . . .		74 46	
Water Charges:			
Current year, (refunds) . . . . .		652 02	
Real Estate Liens . . . . .		12 36	
Tax Titles . . . . .		3,232 28	
Revenue Loans, (temporary) . . . . .		1,967,000 00	
 Commonwealth of Massachusetts:			
State Tax . . . . .	245,420 00		
Special State Tax . . . . .	11,569 80		
Assessments . . . . .	199,352 09		
Metropolitan Water assess- ments . . . . .	133,989 84		
War Poll Taxes, 1920 . . . . .	18 00		
1921 . . . . .	73,641 00		
Soldiers' Exemption . . . . .	379 07		
Bank Tax, non-resident . . . . .	4,164 61		
		<hr/>	
		668,534 41	
 County of Middlesex, county tax . . . . .			
		130,844 89	
General Expenses . . . . .		2,389,011 94	
Interest: Revenue Loans . . . . .	63,792 63		
Funded Debt . . . . .	45,056 25		
		<hr/>	
		108,848 88	
Carried forward . . . . .		\$5,268,705 88	

Brought forward . . . . .		\$5,268,705 88	
Reduction of Funded Debt . . . . .		194,500 00	
Trust Funds, Investment:			
School, Baker Fund . . . . .		300 00	
Trust Funds:			
School, Cutler Fund . . . . .	91 20		
Smith-Hughes Fund . . . . .	2,583 10		
Baker Fund . . . . .	9 00		
		<hr/>	2,683 30
Library, Cutler Fund . . . . .	30 07		
Hunt Art Fund . . . . .	187 35		
Hunt Book Fund . . . . .	445 24		
Pitman Art Fund . . . . .	161 55		
Pitman Poetry Fund . . . . .	46 46		
		<hr/>	870 67
Teller's Shorts and Overs . . . . .		42 58	
		<hr/>	\$5,467,102 43
Non-Revenue			
Outlay Appropriations . . . . .		183,863 30	
Redemption Tax Titles . . . . .		2,941 38	
		<hr/>	186,804 68
			<hr/>
			\$5,653,907 11
Cash in office . . . . .		1,509 39	
Deposits in banks . . . . .		159,724 81	
		<hr/>	161,234 20
			<hr/>
			\$5,815,141 31
			<hr/>
Revenue			
General Expenses and Revenue Loans . . . . .		135,811 69	
Trust Funds, (Public) . . . . .		3,141 71	
Sundry Persons . . . . .		291 65	
		<hr/>	139,245 05
Non-Revenue			
Outlay Appropriations . . . . .		21,989 15	
		<hr/>	\$161,234 20
			<hr/>

## BALANCES, DECEMBER 31, 1921.

Cash . . . . .		\$161,234 20
Cash Advances . . . . .		200 00
Taxes, 1917 . . . . .	\$772 20	
1918 . . . . .	143 52	
1919 . . . . .	572 17	
1920 . . . . .	2,917 34	
1921 . . . . .	449,077 38	
1921 Excise . . . . .	21 66	
		<hr/>
Street Sprinkling, 1921 . . . . .		453,504 27
		7,986 55
		<hr/>
Carried forward . . . . .		\$622,925 02

Brought forward . . . . .		\$622,925 02	
Overlay and Abatement, 1917			\$772 20
1918			143 52
1919			326 29
1920			1,988 16
1921			6,310 83
Supplementary Assessments .			823 65
Highway Assessments, 1920 .	219 22		
1921 .	4,419 30		
		4,638 52	
Sidewalk Assessments, 1920	1,143 67		
1921	6,069 39		
		7,213 06	
Sewer Assessments, 1921 .		1,581 07	
Metered Water Charges, 1921		26,283 99	
Commonwealth of Massachu-			
setts:			
Soldiers' Benefits . . . .		11,823 50	
Income Tax . . . . .		9,162 38	
Poll Taxes . . . . .		2,871 00	
Grade Crossings . . . . .		427 30	
Real Estate Liens . . . . .		193 88	
Tax Titles . . . . .		2,478 51	
Temporary Loans . . . . .			585,000 00
Funded Debt . . . . .			1,003,500 00
Net Funded Debt . . . . .		1,003,500 00	
Interest . . . . .			5,181 25
Trust Funds, Income:			
Poor, Cummings Fund . . . .	282 12		
School, Cutler Fund . . . .	644 73		
Smith-Hughes Fund . . . . .	1,685 74		
Baker Fund . . . . .	3 38		
Library, Cutler Fund . . . .	27 43		
Hunt Art Fund . . . . .	89 24		
Hunt Book Fund . . . . .	79 64		
Pitman, Art Fund . . . . .	63 30		
Pitman, Poetry Fund . . . .	51 88		
Wilder Fund . . . . .	11 48		
Hunt, Art F'nd, prin-			
cipal . . . . .	202 77		
			3,141 71
Reserve Fund, Surplus from			
Overlay . . . . .			3,356 45
Trust Funds, School . . . . .	\$5,300 00		
Library . . . . .	20,414 58		
Poor . . . . .	1,681 66		
			27,396 24
Trust Funds, Investment:			
School . . . . .	5,300 00		
Library . . . . .	20,414 58		
Poor . . . . .	1,681 66		
		27,396 24	
Sundry Persons . . . . .			291 65
Excess and Deficiency . . . .			60,273 37
Outlay Appropriations . . . .			21,989 15
		<u>\$1,720,494 47</u>	<u>\$1,720,494 47</u>

The assessor's warrant for the tax levy, assessed upon polls and property April 1, 1921, including non-resident bank shares, amounted to \$2,868,668.50, and the tax rate established was \$31.10 on each \$1,000 of valuation, as follows:

Real Estate . . . . .	\$78,386,700 00	
Personal Estate . . . . .	8,256,700 00	
Resident bank shares . . . . .	74,889 60	
	<hr/>	
Total valuation . . . . .	\$86,718,289 60	
At rate of \$31.10 . . . . .		\$2,696,938 81
Polls, 24,547 at \$5.00 . . . . .		122,735 00
Non-resident bank shares to be paid to the state (valuation \$133,910.30)		4,164 61
Street Sprinkling . . . . .		44,830 08
		<hr/>
		\$2,868,668 50
Additional Assessments:		
Personal estate, valuation \$73,008 00 at \$31.10 . . . . .		
Real Estate . . . . .	2,250 00	
	<hr/>	
	\$75,258 00	2,340 53
235 polls at \$5.00 . . . . .		1,175 00
Excise Taxes . . . . .		55 48
		<hr/>
		3,571 01
		<hr/>
Total commitments by assessors . . . . .		<u>\$2,872,239 51</u>



TAXES.

	1917	1918	1919	1920	1921	Excise 1920	Excise 1921	Total
Balance Dec 31, 1920	\$818 20	\$353 20	\$1,309 09	\$399,641 97		\$313 42		\$402,435 88
Committed, 1921	.....	.....	.....	.....		.....	.....	2,823,838 42
Supplementary, 1921	.....	.....	.....	.....	\$2,823,838 42	.....	.....	3,571 01
Refunds	.....	.....	6 00	109 07	3,515 53	.....	\$55 48	394 64
Recharged	.....	.....	10 32	.....	279 57	.....	.....	10 32
Total charges	\$818 20	\$353 20	\$1,325 41	\$399,751 04	\$2,827,633 52	\$313 42	\$55 48	3,230,250 27
Collected	4 40	105 52	164 84	391,939 85	2,354,775 34	313 42	33 82	2,747,337 19
Abated	41 60	104 16	588 40	4,893 85	23,780 80	.....	.....	29,408 81
Total credits	\$46 00	\$209 68	\$753 24	\$396,833 70	\$2,378,556 14	\$313 42	\$33 82	\$2,776,746 00
Balance Dec. 31, 1921	772 20	143 52	572 17	2,917 34	449,077 38	.....	21 66	453,504 27

## STREET SPRINKLING AND MOTH ASSESSMENTS.

Balance Dec. 31, 1920 . . . . .	\$7,500 66	.....	\$7,500 66
Committed, 1921 . . . . .	.....	44,830 08	44,830 08
Refunds . . . . .	.....	74 46	74 46
		<hr/>	<hr/>
Total charges . . . . .	\$7,500 66	\$44,904 54	\$52,405 20
Collected . . . . .	7,490 70	36,723 95	44,214 65
Abated . . . . .	9 96	194 04	204 00
		<hr/>	<hr/>
Total credits . . . . .	\$7,500 66	\$36,917 99	\$44,418 65
Balance Dec. 31, 1921 . . . . .	.....	7,986 55	7,986 55

OVERLAY AND ABATEMENT.

	1917	1918	1919	1920	1921	Total
Credit Balance Dec. 31, 1920	\$818 20	\$353 20		\$1,351 31		\$2,522 71
Debit Balance Dec. 31, 1920			\$95 63			95 63
Assessed in taxes					\$24,479 74	24,479 74
Taxes recharged			10 32			10 32
Credited by Commonwealth				1,395 00	3,576 00	4,971 00
Transfers			1,000 00	4,000 00		5,000 00
Total credits	\$818 20	\$353 20	\$914 69	\$6,746 31	\$28,055 74	\$36,888 14
Abatements	41 60	104 16	588 40	4,758 15	21,744 91	27,237 22
Transferred to Reserve Fund	4 40	105 52				109 92
Total charges	\$46 00	\$209 68	\$588 40	\$4,758 15	\$21,744 91	\$27,347 14
Credit Balance, Dec. 31, 1921	\$772 20	\$143 52	\$356 29	\$1,988 16	\$6,310 83	\$9,541 00

RESERVE SUPPLEMENTARY ASSESSMENTS.

Balance to credit Dec. 31, 1920		\$986 25			
Supplementary Assessments, 1921		3,515 53			
Credited by Commonwealth		60 00			
Total credits		\$4,561 78			
Abatements		2,171 59			
Transferred to Revenue		861 54			
Credited to Commonwealth		705 00			
Total charges		\$3,738 13			
Balance Dec. 31, 1921		\$823 65			



DEPARTMENTAL ACCOUNTS FOR COLLECTION AND DEPOSITS.

	Balance Jan. 1, 1921	Committed	Abated	Collected	Balance Dec. 31, 1921	Deposits
Assessors . . . . .	.....	.....	.....	.....	.....	\$2 00
City Clerk . . . . .	.....	.....	.....	.....	.....	1,791 05
City Engineer . . . . .	.....	\$51 00	\$51 00	.....	.....	3 71
Police Department . . . . .	\$118 31	94 23	.....	\$212 54	.....	10 40
Police Buildings . . . . .	.....	1,000 00	.....	1,000 00	.....	.....
Fire Department . . . . .	.....	86 05	56 05	30 00	.....	113 80
Weights and Measures . . . . .	.....	.....	.....	.....	.....	501 42
Health Department . . . . .	559 60	603 64	.....	796 10	367 14	.....
Contagious Hospital . . . . .	3,368 36	8,221 96	646 02	8,086 96	2,857 34	.....
Inspection of Milk and Vinegar . . . . .	23 00	646 00	.....	638 00	31 00	20 00
Sanitary Department . . . . .	377 20	1,958 00	.....	2,314 20	21 00	7,666 30
Highway Maintenance . . . . .	351 77	5,524 93	150 07	5,608 29	118 34	.....
Highway Buildings . . . . .	.....	260 00	.....	260 00	.....	.....
New Sidewalks . . . . .	129 53	.....	.....	129 53	.....	.....
Sidewalks Maintenance . . . . .	.....	10 00	.....	10 00	.....	.....
Poor, Misc. (Commonwealth) . . . . .	11,233 14	26,430 17	12 00	27,783 12	9,868 19	.....
Poor, Miscellaneous . . . . .	1,744 13	8,214 71	76 46	5,634 09	4,248 29	12 00
Poor, City Home . . . . .	3,815 14	3,963 99	3,050 71	3,730 38	998 04	3,727 39
School Department . . . . .	3,049 07	15,355 75	3,128 64	13,097 23	2,178 95	21 11
School Buildings . . . . .	50 15	1,646 63	166 15	1,386 63	144 00	7 05
Libraries . . . . .	.....	.....	.....	.....	.....	1,871 11
Bathhouse . . . . .	.....	.....	.....	.....	.....	654 85
Shower Baths . . . . .	.....	.....	.....	.....	.....	497 10
	<u>\$24,819 40</u>	<u>\$74,067 06</u>	<u>\$7,337 10</u>	<u>\$70,717 07</u>	<u>\$20,832 29</u>	<u>\$16,899 29</u>

## REVENUE LOANS.

(Temporary.)

In Anticipation of Revenue.

Balance from 1920 . . . . .					\$625,000 00
Borrowed by authority of the Board of Aldermen on city notes as follows:					
Nos. 847	289 days	— 5.60%	.	.	\$12,000 00
848-852	276	" — 5.55	.	.	75,000 00
853-861	270	" — 5.49	.	.	100,000 00
862	223	" — 5.55	.	.	25,000 00
863-867	245	" — 5.50	.	.	50,000 00
868-872	241	" — 5.50	.	.	50,000 00
873	112	" — 5.60	.	.	50,000 00
874-878	239	" — 5.85	.	.	50,000 00
879-884	231	" — 5½	.	.	50,000 00
885-888	213	" — 5.92	.	.	50,000 00
889-897	227	" — 5.92	.	.	100,000 00
898-900	224	" — 5.80	.	.	25,000 00
901-909	220	" — 5.90	.	.	100,000 00
910-911	220	" — 5.80	.	.	25,000 00
912-920	196	" — 5.88	.	.	100,000 00
921-929	203	" — 5.84	.	.	100,000 00
930-938	206	" — 5.68	.	.	100,000 00
939-940	154	" — 5.90	.	.	100,000 00
941-953	148	" — 6.04	.	.	150,000 00
954	108	" — 5.60	.	.	30,000 00
955-963	146	" — 5	.	.	100,000 00
964-972	174	" — 5	.	.	100,000 00
973-978	169	" — 5	.	.	100,000 00
979-983	161	" — 43-8	.	.	50,000 00
984-990	189	" — 43-8	.	.	100,000 00
On coupon notes, interest to follow:					
Nos. 98-102	— 1 yr.	— 5.75%	.	.	25,000 00
103-104	— 1 yr.	— 5.75%	.	.	50,000 00
105	— 11 mos.	— 5½%	.	.	10,000 00
106-110	— 9 mos.	— 5¼%	.	.	50,000 00
					1,927,000 00
Paid notes maturing 1921 . . . . .					\$2,552,000 00
					\$1,967,000 00
Maturing in 1922 . . . . .					\$585,000 00
Discount paid was . . . . .					\$54,438 46
3 mos. int. on coupon notes					
	106-110	at 5¼%	.	\$656 25	
6 mos. int. on coupon notes					
	98-102	at 5¾%	.	718 75	
5 mos. int. on coupon note					
	note 105	at 5½%	.	229 17	
					1,604 17
Carried forward . . . . .					\$56,042 63

Brought forward . . . . .		\$56,042 63
Interest due in 1921 on coupon notes of 1920 — 78-82 — 83-87 — 88-97 . . . . .		7,750 00
		<hr/>
Total paid in 1921 . . . . .		\$63,792 63
Int. due in 1922 on coupon notes 98-102 . . . . .	\$718 75	
103-104 . . . . .	2,875 00	
105 . . . . .	275 00	
106-110 . . . . .	1,312 50	5,181 25
This amount has been reserved and carried forward to credit of interest account of 1922 . . . . .		
Discount and interest paid in 1921 on account of 1921 revenue loans . . . . .		56,042 63
		<hr/>
Cost of interest on account of 1921 rev- enue loans . . . . .	\$61,223 88	
Discount notes of \$1,792,000.00 average 197.42 days, average rate 5.539		
Int. to follow notes, \$135,000.00 average 324 days, average rate 5.5867		
		<hr/>
Average rate of total . . . . .		5.545

The funded debt December 31, 1921, was \$1,003,500.00, classified as follows:

City Loan Bonds at 3½ per cent . . . . .	\$22,000 00
City Loan Bonds at 4 per cent . . . . .	207,500 00
City Loan Bonds at 4¼ per cent . . . . .	20,000 00
Sewer Loan Bonds at 3½ per cent . . . . .	56,000 00
Sewer Loan Bonds at 4 per cent . . . . .	133,000 00
Sewer Loan Bonds at 4¼ per cent . . . . .	22,000 00
Met. Park Asst. Loan Bonds at 3½ per cent . . . . .	8,000 00
Lowell St. Bridge Loan Bonds at 3½ per cent . . . . .	28,000 00
Municipal Loan Bonds at 4½ per cent . . . . .	15,000 00
Highway Loan Bonds at 3½ per cent . . . . .	38,000 00
Highway Loan Bonds at 4 per cent . . . . .	90,000 00
Highway Loan Bonds at 4½ per cent . . . . .	34,000 00
Highway Loan Bonds at 5 per cent . . . . .	95,000 00
Public Bldg. Loan Bonds at 4 per cent . . . . .	160,000 00
Public Bldg. Loan Bonds at 4½ per cent . . . . .	70,000 00
Emergency Loan Bonds at 4¼ per cent . . . . .	5,000 00
	<hr/>
	\$1,003,500 00

Funded debt within the limit fixed by law:

City Loan . . . . .	\$249,500 00
Municipal Loan . . . . .	15,000 00
Highway Loan . . . . .	257,000 00
Public Bldg. Loan . . . . .	230,000 00
Sewer Loan . . . . .	199,000 00
Lowell St. Bridge Loan . . . . .	28,000 00
Emergency Loan . . . . .	5,000 00
	<hr/>
	\$983,500 00
	<hr/>
Carried forward . . . . .	\$983,500 00

Brought forward . . . . . \$983,500 00

Funded debt beyond the limit fixed by law:

Sewer Loan (Chap. 357, Acts 1895) . . . . .	12,000 00	
Met. Park Asst. Loan (Chap. 325, Acts of 1902) . . . . .	8,000 00	
	<u>20,000 00</u>	
		<u>\$1,003,500 00</u>

BONDS DUE IN 1922.

	January	April	July	October	Total
Emergency . . . . .	.....	.....	\$5,000	.....	\$5,000
Park . . . . .	.....	.....	1,000	.....	1,000
Bridge . . . . .	.....	\$1,000	.....	.....	1,000
Sewer . . . . .	\$3,000	10,000	10,000	.....	23,000
City . . . . .	9,000	24,000	17,500	\$2,000	52,500
Municipal . . . . .	.....	.....	8,000	.....	8,000
Highway . . . . .	8,000	48,000	4,000	.....	60,000
Building . . . . .	6,000	5,000	8,000	.....	19,000
	<u>\$26,000</u>	<u>\$88,000</u>	<u>\$53,500</u>	<u>\$2,000</u>	<u>\$169,500</u>

BOND INTEREST DUE IN 1922.

	January	April	July	October	Total
Emergency . . . . .	\$106 25	.....	\$106 25	.....	\$212 50
Park . . . . .	140 00	.....	140 00	.....	280 00
Bridge . . . . .	.....	\$490 00	.....	\$472 50	962 50
Sewer . . . . .	1,240 00	2,867 50	1,185 00	2,671 25	7,963 75
City . . . . .	2,505 00	2,455 00	2,325 00	1,972 50	9,257 50
Municipal . . . . .	337 50	.....	337 50	.....	675 00
Highway . . . . .	910 00	4,695 00	770 00	3,675 00	10,050 00
Building . . . . .	3,515 00	1,260 00	3,395 00	1,160 00	9,330 00
	<u>\$8,753 75</u>	<u>\$11,767 50</u>	<u>\$8,258 75</u>	<u>\$9,951 25</u>	<u>\$38,731 25</u>

BONDS OUTSTANDING JANUARY 1, 1922, WITH INTEREST TO MATURITY.

	Bonds	Interest
Emergency Loan Bonds . . . . .	\$5,000 00	\$212 50
Metropolitan Park Loan Bonds . . . . .	8,000 00	1,260 00
Bridge Loan Bonds . . . . .	28,000 00	13,720 00
Sewer Loan Bonds . . . . .	211,000 00	56,485 00
City Loan Bonds . . . . .	249,500 00	41,340 00
Municipal Loan Bonds . . . . .	15,000 00	990 00
Highway Loan Bonds . . . . .	257,000 00	38,300 00
Pub. Bldg. Loan Bonds . . . . .	230,000 00	66,565 00
	<u>\$1,003,500 00</u>	<u>\$218,872 50</u>



OUTSTANDING BONDS, DECEMBER 31, 1921.

	City	Sewer	Sewer Outside	Park	Bridge	Municipal Highway	Pub. Bldgs.	Emergency	Total Due
1922	\$52,500	\$20,000	\$3,000	\$1,000	\$1,000	\$60,000	\$19,000	\$5,000	\$129,500
1923	41,500	18,000	3,000	1,000	1,000	41,000	18,000	.....	130,500
1924	25,500	17,000	3,000	1,000	1,000	41,000	18,000	.....	106,500
1925	23,000	17,000	3,000	1,000	1,000	30,000	18,000	.....	93,000
1926	19,000	15,000	.....	1,000	1,000	25,000	18,000	.....	79,000
1927	19,000	14,000	.....	1,000	1,000	17,000	17,000	.....	69,000
1928	17,000	12,000	.....	1,000	1,000	14,000	16,000	.....	61,000
1929	16,000	11,000	.....	1,000	1,000	14,000	16,000	.....	59,000
1930	15,000	10,000	.....	1,000	1,000	10,000	16,000	.....	52,000
1931	12,000	10,000	.....	1,000	1,000	5,000	15,000	.....	43,000
1932	9,000	8,000	.....	1,000	1,000	.....	15,000	.....	33,000
1933	.....	8,000	.....	1,000	1,000	.....	14,000	.....	23,000
1934	.....	8,000	.....	1,000	1,000	.....	14,000	.....	23,000
1935	.....	7,000	.....	1,000	1,000	.....	8,000	.....	16,000
1936	.....	6,000	.....	1,000	1,000	.....	4,000	.....	11,000
1937	.....	6,000	.....	1,000	1,000	.....	4,000	.....	11,000
1938	.....	4,000	.....	1,000	1,000	.....	.....	.....	5,000
1939	.....	3,000	.....	1,000	1,000	.....	.....	.....	4,000
1940	.....	2,000	.....	1,000	1,000	.....	.....	.....	3,000
1941	.....	1,000	.....	1,000	1,000	.....	.....	.....	2,000
1942	.....	1,000	.....	1,000	1,000	.....	.....	.....	2,000
1943	.....	1,000	.....	1,000	1,000	.....	.....	.....	2,000
1944	.....	.....	.....	1,000	1,000	.....	.....	.....	1,000
1945	.....	.....	.....	1,000	1,000	.....	.....	.....	1,000
1946	.....	.....	.....	1,000	1,000	.....	.....	.....	1,000
1947	.....	.....	.....	1,000	1,000	.....	.....	.....	1,000
1948	.....	.....	.....	1,000	1,000	.....	.....	.....	1,000
1949	.....	.....	.....	1,000	1,000	.....	.....	.....	1,000
	<b>\$249,500</b>	<b>\$199,000</b>	<b>\$12,000</b>	<b>\$8,000</b>	<b>\$28,000</b>	<b>\$15,000</b>	<b>\$230,000</b>	<b>\$5,000</b>	<b>\$1,003,500</b>

## Yearly Bond Maturities with interest.

Date Due	Principal	Interest	Total
1922.....	\$169,500 00	\$38,731 25	\$208,231 25
1923.....	130,500 00	32,346 25	162,846 25
1924.....	106,500 00	27,231 25	133,731 25
1925.....	93,000 00	23,143 75	116,143 75
1926.....	79,000 00	19,578 75	98,578 75
1927.....	69,000 00	16,441 25	85,441 25
1928.....	61,000 00	13,688 75	74,688 75
1929.....	59,000 00	11,156 25	70,156 25
1930.....	52,000 00	8,791 25	60,791 25
1931.....	43,000 00	6,813 75	49,813 75
1932.....	33,000 00	5,246 25	38,246 25
1933.....	23,000 00	3,978 75	26,978 75
1934.....	23,000 00	3,051 25	26,051 25
1935.....	16,000 00	2,223 75	18,223 75
1936.....	11,000 00	1,673 75	12,673 75
1937.....	11,000 00	1,221 25	12,221 25
1938.....	5,000 00	808 75	5,808 75
1939.....	4,000 00	636 25	4,636 25
1940.....	3,000 00	501 25	3,501 25
1941.....	2,000 00	403 75	2,403 75
1942.....	2,000 00	326 25	2,326 25
1943.....	2,000 00	248 75	2,248 75
1944.....	1,000 00	192 50	1,192 50
1945.....	1,000 00	157 50	1,157 50
1946.....	1,000 00	122 50	1,122 50
1947.....	1,000 00	87 50	1,087 50
1948.....	1,000 00	52 50	1,052 50
1949.....	1,000 00	17 50	1,017 50
	<u>\$1,003,500 00</u>	<u>\$218,872 50</u>	<u>\$1,222,372 50</u>

## BORROWING CAPACITY, DECEMBER 31, 1921.

Valuation, 1919	.	.	.	.	\$87,353,424 00	
Supplementary	.	.	.	.	39,300 00	
						<u>\$87,392,724 00</u>
Valuation, 1920	.	.	.	.	83,910,855 60	
Supplementary	.	.	.	.	17,700 00	
						<u>83,928,555 60</u>
Valuation, 1921	.	.	.	.	86,718,289 60	
Supplementary	.	.	.	.	75,258 00	
						<u>86,793,547 60</u>
Total	.	.	.	.		<u>\$258,114,827 20</u>
Abatements, 1919	.	.	.	.	349,375 00	
1920	.	.	.	.	476,450 00	
1921	.	.	.	.	541,408 00	
						<u>1,367,233 00</u>
Carried forward	.	.	.	.		<u>\$256,747,594 20</u>

Brought forward . . . . .				\$256,747,594 20
Average three years, one-third . . . . .				\$85,582,531 40
2½ per cent . . . . .				2,139,563 28.5
Funded Debt December 31, 1921 . . . . .	\$1,003,500 00			
Outside limit fixed by law				
Sewer loan, 1895, Chap. 357 . . . . .	\$12,000 00			
Met. Park Loan, Chap. 325, 1902 . . . . .	8,000. 00	20,000 00		983,500 00
		<hr/>		<hr/>
Borrowing capacity December 31, 1921 . . . . .				\$1,156,063 28
Maturities:				
January 1, 1922 . . . . .		26,000 00		
April 1, 1922 . . . . .		88,000 00		
July 1, 1922 . . . . .	\$53,500 00			
Less outside limit . . . . .	4,000 00			
		<hr/>		<hr/>
October 1, 1922 . . . . .		49,500 00		
		2,000 00		165,500 00
		<hr/>		<hr/>
				\$1,321,563 28
Maturities within the limit, 1922 . . . . .		165,500 00		
Maturities outside the limit, 1922 . . . . .		4,000 00		
		<hr/>		<hr/>
		\$169,500 00		

MEMORANDUM OF PAYMENTS ON ACCOUNT OF DEBT, 1921.

	Principal	Interest	Total
Bonds, General City Debt	\$194,409 50	\$44,722 92	\$239,132 42*
Revenue Loans .....	.....	63,793 63	63,793 63†
Grade Crossings .....	7,380 00	576 60	7,956 60
On account of Metro. Dist. Debt:			
Sewers .....	22,713 77	31,560 60	54,274 37
Park .....	3,786 94	14,987 82	18,774 76
Wellington Bridge .....	1,265 00	227 70	1,492 70
Charles River Basin .....	320,51	3,729 63	4,050 14
Alewife Brook .....	818 39	293 62	1,112 01
Water .....	14,198 58	75,848 98	90,047 56
Somerville's proportion for debt requirements:			
In State Tax .....	26,056 22	35,706 42	61,762 64
In County Tax .....	2,882 60	4,118 00	7,000 60
	<hr/>	<hr/>	<hr/>
	\$273,831 51	\$275,565 92	\$549,397 43

\* \$90.50 premium on 1920 bonds applied.  
 333.33 accrued interest on 1921 bonds applied.

† Includes \$7,750.00 on 1920 loans borrowed interest to follow, but does not include \$5,181.25 interest on 1921 loans due in 1922; this amount reserved and carried forward to 1922 in interest account.

## GRADE CROSSING DEBT.

Carried by Commonwealth).

Decreases entered . . . . .		\$120,097 10
Paid Commonwealth . . . . .	\$134,389 01	
Deduct interest included in above . . . . .	22,051 91	112,337 10
		<u>\$7,760 00</u>

Payable	Principal	Interest
Nov. 15, 1922 . . . . .	\$4,380 00	294 40
1923 . . . . .	3,380 00	127 20
	<u>\$7,760 00</u>	<u>\$421 60</u>

## TREASURY DEPARTMENT, 1921.

Appropriated in budget . . . . .		\$20,577 00
Salaries:		
Treasurer and Collector . . . . .	\$4,000 00	
Deputy Collector . . . . .	2,000 00	
Cashiers . . . . .	2,536 00	
Clerks . . . . .	7,718 32	
Stationery, postage and books . . . . .	1,774 00	
Printing and Advertising . . . . .	848 16	
Telephone . . . . .	155 04	
Tracing tax-payers . . . . .	60 00	
Bonds . . . . .	454 29	
Convention expenses . . . . .	74 55	
Adding machine . . . . .	165 00	
Advertising and recording tax sales . . . . .	523 37	
Sundries . . . . .	257 49	
	<u>\$20,566 22</u>	
Balance . . . . .	10 78	<u>\$20,577 00</u>

**REPORT OF THE SCHOOL COMMITTEE.  
CITY OF SOMERVILLE.**

---

School Committee Rooms, December 23, 1921.

Ordered, that the annual report of the Superintendent be adopted as the annual report of the Board of School Committee, it being understood that such adoption does not commit the Board to the opinions or recommendations made therein; that it be incorporated in the reports of the City Officers; and that 1,000 copies be printed separately.

CHARLES S. CLARK,

*Secretary of School Board.*

## SCHOOL COMMITTEE, 1921.

HERBERT CHOLERTON . . . . . Chairman  
 WALTER I. CHAPMAN . . . . . Vice-Chairman

## Members.

## EX-OFFICIIS.

CHARLES W. ELDRIDGE, Mayor, . . . . . 47 Highland road.  
 RICHARD L. RICE, President Board of Aldermen, 296½ Broadway.

## WARD ONE.

FRANCIS J. FITZPATRICK, . . . . . 76 Broadway.  
 WILLIAM T. MCCARTHY, . . . . . 38 Pearl street.

## WARD TWO.

DANIEL H. BRADLEY, . . . . . 19 Concord avenue.  
 CHRISTOPHER J. MULDOON, . . . . . 88 Concord avenue.

## WARD THREE.

CHARLES W. BOYER, . . . . . 104 Summer street.  
 OSCAR W. CODDING, . . . . . 59 Vinal avenue.

## WARD FOUR.

FRANK M. HAWES, . . . . . 257 School street.  
 EDWARD I. TRIPP, . . . . . 21 Wigglesworth street.

## WARD FIVE.

HARRY M. STOODLEY, . . . . . 283 Highland avenue.  
 MISS MINNIE S. TURNER, . . . . . 64 Hudson street.

## WARD SIX.

WALTER I. CHAPMAN, . . . . . 18-A Central street.  
 WILLIAM M. MORRISON, . . . . . 97 Rogers avenue.

## WARD SEVEN.

HERBERT CHOLERTON, . . . . . 94 College avenue.  
 PAUL O. CURTIS, . . . . . 41 Mason street.

## Superintendent of Schools.

CHARLES S. CLARK.

Office: City Hall Annex, Highland avenue.

Residence: 75 Munroe street.

The Superintendent's office will be open on school days from 8 to 5; Saturdays, 8 to 10. His office hour is 4 o'clock on school days, and 8:30 on Saturdays.

## Superintendent's Office Force.

Mary A. Clark, 42 Highland avenue.

Mildred A. Merrill, 26 Cambria street.

H. Madeline Kodad, 104 Sharon street, West Medford.

Marion E. Marshall, 30 Gilman street.

Ruth O. Elliott, 4 Lincoln place.

Marguerite E. Flanagan, 10 Auburn avenue.

## Board Meetings.

January 31.	April 25.	September 26.	December 23.
February 28.	May 30.	October 31.	December 30.
March 28.	June 27.	November 28.	

8:15 o'clock.

## Standing Committees, 1921.

NOTE.—The member first named is chairman.

District I. — Fitzpatrick, McCarthy, Muldoon.

PRESCOTT, HANSCOM, BENNETT.

District II. — Bradley, Muldoon, Coddling.

KNAPP, PERRY, BAXTER.

District III. — Boyer, Coddling, Fitzpatrick.

POPE, CUMMINGS.

District IV. — Tripp, Hawes, Miss Turner.

EDGERLY, GLINES.

District V. — Miss Turner, Stoodley, Hawes.

FORSTER, BINGHAM.

District VI. — Chapman, Morrison, Stoodley.

CARR, MORSE, PROCTOR, DURELL, BURNS, BROWN.

District VII. — Curtis, Cholerton, Morrison.

HIGHLAND, CUTLER, LINCOLN, LOWE.

High School. — Bradley, Hawes, Fitzpatrick, Coddling, Stoodley, Morrison, Cholerton.

Finance. — Stoodley, Coddling, Bradley, McCarthy, Tripp, Chapman, Cholerton, Eldridge, Rice.

Text-Books and Courses of Study. — Muldoon, Chapman, McCarthy, Boyer, Hawes, Turner, Curtis.

Industrial Education. — Tripp, Boyer, Fitzpatrick, Muldoon, Miss Turner, Morrison, Cholerton.

School Accommodations. — Coddling, Curtis, Fitzpatrick, Bradley, Tripp, Stoodley, Morrison, Eldridge, Rice.

Teachers. — Cholerton, Miss Turner, Muldoon, Coddling, Chapman.

Health, Physical Training and Athletics. — Morrison, McCarthy, Muldoon, Boyer, Tripp, Stoodley, Curtis.

Rules and Regulations. — Hawes, Curtis, McCarthy.

## REPORT OF THE SUPERINTENDENT OF SCHOOLS.

To the School Committee:—

Herewith is submitted the 50th annual report of the Superintendent of Schools upon the conditions of the public schools for the municipal year 1921.

With this report statistical tables are given which show facts concerning the attendance of pupils, expenditures for the support of the schools and other facts of interest to the citizens.

### Membership and Teachers.

The membership in the regular day schools in December was 14,223, an increase of 612 pupils over the corresponding time last year. The average membership for the school year ended June 30, 1921 was 13,396, an increase of 560 over the average membership of 1920. These numbers are the largest in the history of the schools. The present membership is 1056 greater than the membership two years ago at this time. The distribution of the present membership among the large divisions of the school system and a comparison of this year's conditions with the corresponding ones a year ago are shown in the following statement:

#### Membership.

		High	Junior High	Elementary including Kindergarten	Vo- cational	Total	Increase
December .....	1921	1966	3367	8766	124	14,223	612
December .....	1920	1692	3168	8630	121	13,611	

#### Teachers.

(including masters but not supervisors or special teachers.)

		High	Junior High	Elementary including Kindergarten	Vo- cational	Total	Increase
December .....	1921	72	115	224	10	421	8
December .....	1920	65	112	226	10	413	

During the year 36 teachers were elected and assigned as follows: High School 8, Junior High Schools 10, Elementary Schools 16, Continuation School 1, and an assistant physical director. 31 teachers resigned,—11 to be married, 17 to accept



better paying positions, of whom 4 were from the High School, 9 from the Junior High Schools, 2 from the elementary schools, and 2 cadets. Two teachers were promoted from Junior High School to Senior High School, 3 from assistant to principal kindergarten teacher. There were two deaths and five retirements. The large number of teachers who left our schools for better positions elsewhere is cause both for concern and for satisfaction. It is a cause for concern in that the schools have lost the services of these teachers and the work of the schools has been interrupted by consequent changes. It is a cause for satisfaction to the extent that other cities have recognized these Somerville teachers as superior and desirable. Under existing conditions of salaries for teachers in Massachusetts, it will be difficult for Somerville both to retain its superior teachers and to fill the positions of those who are attracted to other places by higher salaries. The chief element of stability now is the fact that many of our able teachers are attached to Somerville by home ties or by liking for teaching conditions here, and prefer to remain rather than to gain financial advantage elsewhere. This acknowledgment is due to these fine teachers lest there should seem to be an implication that all our superior teachers are leaving us.

#### Finance.

Of the total sum spent for the support of the schools in the school year ended June 30, 1921, 80 per cent was expended for teachers' salaries, 3 per cent for school supplies, 1 1-2 per cent for administration, 8 1-2 per cent for heat and light, and 7 per cent for janitors' salaries. The increases in per cent over last year were for teachers' salaries 1 per cent, and for heat and light 2.2 per cent. The decreases were in school supplies 2.3 per cent, administration 1-2 per cent, and janitors' salaries .4 per cent. Over a series of years these expenditures have maintained about the same relation one to another. It is a creditable fact that by far the largest part of the whole amount expended is given to teachers' salaries. The total expenditure was \$878,153, an increase of \$120,475. There was an increase of \$102,385 in teachers' salaries and \$5,054 in janitors' salaries. This increase of teachers' salaries was due largely to the operation of the salary schedule which became effective in January, 1920, whereby an addition of \$400 was given to all teachers.

In order to show the standing of Somerville among the other cities of the state in expenditure for education, the following table was compiled from the 84th annual report of the Department of Education:

Statement showing the expenditure of the 38 cities in Massachusetts for support of Public Schools per pupil in net average membership for the school year ending June 30, 1920. Expenditures for Vocational Education are not included herein.

Rank	Name of the city	Expenditure
1	Springfield	\$65 34
2	Holyoke	65 19
3	Newton	63 79
4	Boston	58 02
5	Waltham	57 59
6	Gloucester	57 53
7	Fitchburg	54 43
8	Cambridge	53 42
9	Taunton	53 22
10	Worcester	52 74
11	Melrose	50 73
12	Brockton	50 48
13	Lowell	50 26
14	North Adams	49 95
15	New Bedford	49 41
16	Marlboro	49 32
17	Lawrence	47 99
18	Salem	47 92
19	Revere	47 60
20	Haverhill	46 59
21	Chicopee	46 49
22	Beverly	45 66
23	Fall River	45 52
24	Leominster	44 41
25	Peabody	43 55
26	Malden	42 81
27	Northampton	42 80
28	Somerville	41 95
29	Medford	41 40
30	Attleboro	41 24
31	Pittsfield	40 90
32	Lynn	40 44
33	Methuen	39 92
34	Quincy	39 71
35	Everett	38 24
36	Chelsea	36 48
37	Newburyport	36 14
38	Woburn	34 65

Somerville is 10th in population; 7th in number of pupils enrolled; 28th in expenditure per pupil; 20th in expenditure per \$1000 of valuation.

#### School Accommodations.

As no additional school accommodations have been provided during the last year, the conditions noted in the last annual report of the School Committee continue modified only by changes in the attendance of pupils and by the increase in

number of pupils. The High School is full. It is necessary to use every room for recitation or home-room purposes. There is no room available for desirable additional activities. The school suffers for the lack of a suitable room for the school library and of suitable rooms for the use of teachers; there should be one large room for women teachers and one for male teachers. An additional room for office practice is needed in connection with the Commercial Department, and a music room for small choruses, glee clubs, band, etc. Rooms for these uses can be had only by taking classrooms. As with the present large attendance classrooms cannot be spared for this purpose, it will be necessary to wait until the school shrinks materially before these improvements can be made. In the Junior High Schools the overcrowding referred to last year continues. It has been aggravated in the Southern and Eastern Junior High Schools by considerable growth in membership. In the Eastern Junior High School, it has been necessary to use the sewing room and typewriting room as home rooms and to convert the basement assembly room of the Southworth Building into three classrooms for recitation purposes. Protests against this use have been made by parents of children whose classes are held there but the arrangement has been accepted as the best one that can be made. At the Southern Junior High School an increase of 100 pupils has greatly added to the difficulties of conducting the school. As there were not enough rooms to accommodate all the pupils at one time, it was necessary to have an afternoon session for one grade. The seventh-year pupils therefore are attending school on a two-session basis, one-half the number attending the first half of the regular session, the other half attending the second half, and both groups making up the rest of the time in the afternoon.

At the Northern and Western Junior High Schools the conditions are substantially as reported last year, there being no considerable change in the membership of these schools.

In the elementary schools there is overcrowding in the eastern part of the city and comfortable conditions elsewhere. In the Prescott School five rooms devoted to elementary school purposes carry seven classes. The Hanscom School, a ten-room building, carries eleven classes. The Edgerly School, a twelve-room building, carries twelve classes, all over-large. The Glines School, a fourteen-room building, has fourteen classes, all above forty. At the Forster School, where four classrooms are devoted to elementary uses, there are six grades and four teachers. In the Bennett, Baxter, Cummings, Pope, Carr, Bingham, Durell, Burns, Brown, Cutler, Lincoln,

and Lowe schools every classroom is occupied. In the Knapp School, formerly a twelve-room building, two rooms have been taken for an assembly room. This room is used for school purposes, parent-teachers' association meetings, political rallies, and for other neighborhood activities. Of the remaining ten classrooms, one is vacant at the present time. There is a vacant room in the Perry School. A request is pending before the School Committee for a new kindergarten in one of these rooms. There is a vacant room in the Morse School which is used as an assembly hall, a meeting place for parent-teachers' associations and other community meetings, and a place for the holding of Americanization classes. This room should not be regarded as an empty room but rather as one contributing its full share to community needs. There is a vacant room in the Proctor School where it is proposed to place a new class for atypical children. In the Highland School there are three vacant rooms. There are propositions pending before the School Committee to use two of these rooms in the near future. From this statement it is seen that the large majority of the schoolhouses are occupied to their full capacity. Several are overcrowded and there are but two vacant rooms in the schools for which there is not now in prospect a day school use.

In the January meeting the School Committee adopted a recommendation presented by the Committee on School Accommodations as follows: That in its judgment suitable additions should be made to the Western and the Southern Junior High School Buildings, each to include an auditorium, gymnasium, and swimming pool; and, further, that a new junior high school building, to provide for the needs of the district now cared for by the Northern and Eastern Junior High Schools, should be erected at a point accessible to both the districts, thus releasing for elementary purposes the present buildings in the Northern and Eastern districts used for Junior High School purposes. In the opinion of the Committee, Broadway Park would make an admirable location for the proposed new building. The Committee further recommends that the Public Property Committee of the Board of Aldermen be invited to arrange a conference with the Committee on School Accommodations of this Board.

Following the adoption of this report there were conferences between the Public Property Committee of the Board of Aldermen and the School Committee extending over a period of several months. On June 9, 1921, the Committee on Public Property of the Board of Aldermen submitted the following report:

To the Board of Aldermen of Somerville,  
Gentlemen:—

The Committee on Public Property begs leave to submit the following report:

After an extensive study of the school accommodations situation in Somerville, together with the expected increased enrollment in September, your committee has unanimously agreed that the need for additional accommodations is very urgent. During their investigations the committee has visited many locations where new construction has been recently undertaken and they are convinced that the best interests of Somerville can be served by inviting all interested architects to submit tentative plans and specifications, and that construction should begin at an early date.

Respectfully submitted,

(Signed)

A. F. HEALD,

*Chairman.*

On June 23, 1921, the Board of Aldermen adopted an order as follows:

ORDERED:

His Honor the Mayor is respectfully requested to recommend to this Board an appropriation of sufficient funds to obtain a suitable location and erect a thirty-six room school building with an auditorium and gymnasium, to accommodate the pupils of the present Northern and Eastern Junior High schools, thus releasing for other needed school purposes the present buildings now used for Junior High Schools in those districts; to erect an addition of six rooms to the Western Junior High school and put that entire building in good condition.

To summarize the situation, the elementary schools in the Eastern part of the city are crowded. Any increase of attendance in that portion of the city will necessitate putting more classes on half-time. The junior high schools are overcrowded, two of them more than ever before. The schools throughout the city are generally full and the classrooms already noted are occupied. The need for the remedy of these conditions has grown more urgent with the passing of another year.

#### Professional Improvement of Teachers.

A matter vitally affecting the efficiency of a teaching corps is that of professional improvement of teachers in service. So important is this matter to the welfare of the teachers and

pupils alike that many cities provide special inducements for teachers to take professional improvement courses, either during the summer vacation or during the school term. Where such inducements can be offered it is undoubtedly good policy to do so. In the absence of provision by the School Committee giving direct recognition of professional improvement work, the teachers of our schools have been actuated only by professional interest in whatever they have done in the matter of self-improvement. It is only an act of fairness to say that a large proportion of our teachers have devoted time and money to the work of self-improvement. A recent report submitted to the Superintendent shows that over 50 per cent of our teachers have taken some kind of professional work since the close of the last school year. These teachers range all the way from kindergartners to Masters of Schools.

Among the institutions attended by our teachers during the time mentioned are: Harvard University, Boston University, Pace Institute, Boston School of Oratory, Simmons College, Boston College, Tufts College, Hyannis Normal School, Boston Normal School, Columbia University, University Extension Courses, and one teacher reports a University Extension Course at Oxford University.

Among the subjects pursued by the teachers have been the following: Business Law and Administration, Principles of Accounting, French, Chemistry, English, History, History of English Literature, Vocational Guidance, Bookkeeping, Secondary Education, Spanish, Teaching and the Supervision of Teaching in Elementary Schools, School Measurements, Appreciation of Music, Socialized Recitation, Psychology, Project Method, Educational Measurements, History of the United States, Story Telling, Citizenship, and Elementary Education.

The results of this professional spirit are shown throughout the school system in improved methods of instruction and in the general tone and work of the schools. Another result is that our teachers are alert to present problems in education and are informed concerning the discussions which are carried on concerning them. This progressive, forward-looking attitude there is every reason to expect our teachers will maintain to their own credit and to the welfare of the schools.

#### The Spirit of the Times.

The spirit of the times is affecting the conduct of the schools in important particulars. Some of these are wholly beneficial and others are more distracting than beneficial.

Among the former may be classed the demands made up-

on the school to direct its influence towards the securing of certain definite ends which are held to be desirable. In general terms these ends are the development of habits or states of mind which will affect the conduct of the individual and to that extent affect his character. Some of these influences are of a permanent and continuing character but others are more or less temporary and accidental. Among the former may be included the agencies and celebrations inculcating patriotism and citizenship, such as Armistice Day, Columbus Day Citizenship Celebration and other national and state holidays; those inculcating benevolence and philanthropy, such as the Junior Red Cross, appeals for Near East Relief, for the up-building of devastated France, and for selling Christmas seals; those inculcating civic virtues such as Education Week, Limitation of Arms Conference, Safety Week, Fire Prevention Day and Christmas Mail Instructions. These and other agencies of the same sort are fostered by interests outside of the school which are devoted to high ideals and to the task of improving our social and political life. They earnestly believe that pupils should be trained in school in the virtues which they represent. In response to their urgency and in response to the conception which school masters have of their own duties, the schools undertake to give instruction on all these matters with the purpose in view of having such instruction operate in the forming of character.

Activities of the second class are hardly so meritorious. They consist in most part of appeals to the school children to aid in raising funds for worthy causes. It is astonishing how many causes of a public and beneficial nature seek to increase their finances through the meager allowances of children. It is a fair question if adults ought not to bear their own financial burdens and leave the children and teachers an opportunity in school to devote time and thought to other matters. The schools are trying to teach thrift to the pupils as a fundamental attribute of character. The most obvious manifestation of thrift is the saving of money. The school is at a disadvantage in teaching thrift when it constantly asks pupils to give their money to adult enterprises which appeal to them for aid. As a further evidence of the timeliness of these considerations, the report of an elementary school principal may be quoted who states that since the opening of schools in September no less than 27 different outside undertakings have been brought by request to the attention of the pupils of his school. Undoubtedly this list would be enlarged if an accurate account had been kept from the beginning of the year.

Concerning the first group of influences the schools do

not complain. Children learn to do by doing; they build character by activity not by passivity. The schools must include in their organized program provision for these character-forming activities. But from many of these temporary and mainly inconsequential (from the view point of the schools) appeals they pray to be delivered—at least for a while.

#### High School.

The membership of the High School on December 2, was 1966. Besides the principal there were 71 teachers. The school has the part-time services of three teachers of physical training, and two of music. There is one matron. The 71 teachers have an average of 27.6 pupils. There are now 355 more pupils in the High School than on June 22, 1921. During the past year the work of the school has been conducted along lines already laid down and effort has been concentrated upon improving methods of administration and instruction and upon securing the best attainable work from the pupils. In both of these efforts substantial results have been achieved. The preparatory department successfully fitted a large number of pupils for college and other higher institutions of learning; and the commercial department prepared its graduates so thoroughly that they found employment without difficulty. The modern High School is today called upon to perform a work far more comprehensive and difficult than was expected of the High School a decade or two ago. A fair idea of the extent and character of this work as seen by High School Principals themselves can be obtained from a report of a Committee of Massachusetts High School Masters upon the topic "Needed Changes in High School Education." This report was submitted to the Massachusetts High School Masters' Club, March 26, 1921. Its discussion is divided among the following heads and sub-heads: Section I. (1) Mobilizing in the High School. (2) Discovering Aspiration, Aptitudes, and Capacities. (3) Adjustments for Different Abilities. (4) Self-Realization and Self-Determination. Section II. (1) Differentiated Curriculums. (2) Adapting Subject to Actual Requirements of Particular Occupations. (3) Independent Intensive Courses. (4) Adaptation of Contents of Subjects to Group Needs. Section III. CONSTANTS IN ALL CURRICULUMS. (1) Command of Fundamental Processes. (2) Health. (3) Citizenship and Socializing Agencies. (4) Worthy Use of Leisure. (5) Building-up of Ethical Character and Morale. Section V. Problems of Reorganization. (1) Means of Reorganization. (2) Obstacles to Reorganization. (3) Recognition of "Main Objectives" in organizing these schools. (4) Junior College. (5) Adjustment to requirements of College



and Other Higher Schools. These topics indicate live questions in the administration and development of High Schools. Each stands for an important matter. Whatever may have been the attitude in the past, it is certain that in the present and in the future it will be necessary for high schools to shape their programs of studies with reference to the application thereto of the ideas discussed in this report. Health and Physical Training are bound to demand greater attention in the management of the schools. Citizenship and socializing agencies, the building-up of character, the adjustments for different abilities, opportunities for self-realization and self-determination are all values which claim consideration and a place in High School programs.

These activities all have for their objective the development of character rather than the increase of knowledge. They have to do with the training of the will that the individual shall become habituated in right re-actions; become, in fact, accustomed to making right decisions in questions of ethical and spiritual values.

An attempt to provide these values in secondary education will necessitate the employment of methods additional to those of class-room recitation. Some of these are suggested by the captions in the report of the Committee. They are: opportunities for pupils to participate in school government; opportunities for pupils to co-operate for common interest of school, home, state and nation; using the moral values and the field of personal responsibility and sacredness of honor in pupils' activities and school discipline; courses in ethics based on concrete problems of school, home, vocation and community; courses in vocational information, instruction, and guidance. In addition to these agencies for the development of character there are others required for the development of health. The report is specific upon this point and urges a vigorous system of physical training and health supervision. Space will not permit the development here of particulars under this head. The purpose of mentioning these matters in this place is first to call attention to these important values in high school education, and second to call attention to the difficulties of providing the necessary machinery for procuring the desired results. Chief among these difficulties is the element of time. The high school day is now divided into recitation periods that are not any too long. These recitation periods are almost wholly claimed by book instruction. The small fraction of time not so claimed is entirely insufficient for the handling of these important character-building subjects. The difficulty is acute. Any attempt to take time from the book subjects for these non-academic activities is resisted by teachers of

academic subjects. An attempt to get more time by a longer school day is opposed frequently by the public. Under these circumstances at the present time there is then a recognition by the school of its duty to the pupils in these particulars, coupled with an inability to discharge its duty properly because of lack of time. Such a situation should receive attention from school authorities with the end in view of finding a solution. The Somerville High School is carrying on all of its literary, commercial and arts work with energy and success. It is attempting to incorporate in its program some of the extra curriculum activities. It intends to find a way to enlarge this field as time and opportunity permit.

#### Junior High Schools.

The membership of the Junior High Schools in December, 1921 is 3367, an increase of 200 pupils over the membership of a corresponding date last year. There are 115 teachers, including 4 masters. The ratio of pupils to teachers, excluding masters, is 30.3. In discussing the number of pupils per teacher in High Schools, the Commissioner of Education in the 84th annual report of the Department of Education says: "The studies of the Department of Education, with reference to the organization and administration of High Schools, point to the conclusion that the *minimum* teaching force consistent with good results in a High School is one teacher, exclusive of the principal, for every 25 pupils." As has already been pointed out, the present situation in the Somerville High School is one teacher for every 27.6 pupils, and in the Junior High School, one teacher for every 30.3 pupils. In actual practice the fact is that some classes in both the High and Junior High Schools have fewer than the average number of pupils while others have a considerable excess. The average, however, in both schools is not far from a desirable standard. 1013 pupils of the Junior High School are in the third or Senior year. These pupils are in the regular High School grade and are taking High School subjects. The remaining pupils are divided about equally between the 7th and 8th grades. These pupils are following a program in which elementary school subjects have approximately 4-5 of the time and elective studies 1-5 of the time. The work of both grades is departmentalized but 7th grade pupils have a considerable portion of their work under one teacher. Four-fifths of the work in the 7th and 8th grades is common to all pupils. The remaining one-fifth offers opportunities for differentiation whereby a child may pursue a line of study for which he has special interest and aptitude. Opportunity is presented to

children to change an elective course when such change is desirable. By such means a pupil has an opportunity to discover by experience what his aptitudes and inclinations really are. Experience in the Junior High School so far shows that most pupils find themselves before the end of the 8th year and thereafter follow the chosen course through the High School. The exceptions to this rule are not far more numerous in the Junior High School than in the Senior High School where pupils have been known to decide to begin to fit for college as late as the Senior year. In measuring the work of the Junior High School reference should be made to the objectives which govern that work. In the 84th annual report of the Department of Education, the Commissioner of Education quotes as follows a resolution adopted by the first state conference of Junior High School Administrators:

Resolved, That we record ourselves in agreement with the following main objectives:—

1. To bring about the proper co-ordination of the elementary and secondary schools.
2. To equalize educational opportunities.
3. To discover and develop the interests and aptitudes of the individual pupil.
4. To develop initiative, self-reliance, and a willingness to accept responsibility; and be it further

Resolved, That this conference believes that the purposes of the Junior High School may best be attained through the following features:—

1. The 6-3-3-plan of organization.
2. Departmental teaching.
3. Differentiation of studies.
4. Gradual introduction of promotion by subject.
5. Supervised study.
6. Reorganization of subject, content, and method.
7. Educational and vocational guidance.
8. Prevocational opportunities.
9. Socialization of instruction and "student activities."

In the Junior High School Manual prepared by a committee of fifteen appointed by the Commissioner of Education the role of Junior High School is defined as follows:

"The distinctive role of the Junior High School, then, is that of a *transition* school. This transition should be natural, gradual, and effective. It should bridge the hazardous and objectionable gap existing under the 8-4 plan between the elementary school and the High School,— a gap due to a too sudden change in the aims, methods, and content of instruction, and in the character of the school organization. It should also recognize the difference in the age, in the case of the two

sexes, at which' the physical transition begins to show itself through attendant changes in mental, physical, and social interests, and should make suitable provision for each. It should provide a controlled environment to meet the expanding interests due to these different kinds of transition.

As a transition school the Junior High school should,—

1. Introduce gradually new subjects, demonstrating to the learner the value of the subjects and constructing therefor an adequate apperceptive basis.
2. Introduce gradually new methods of lesson assignment and of learning.
3. Develop to an increasing degree the power of self-control and self-direction.
4. Increase the departmentalization of instruction, but only so rapidly as the pupils can profit by it.
5. Assure the advancement of pupils in subjects in which they are successful, and require the repetition, in case of failure, of only such subjects as are indispensable as a foundation for future instruction needed by that pupil.
6. Give pupils a broad outlook upon the world's work, and help them to ascertain their own aptitudes, interests, and abilities with reference thereto.
7. Provide progressive differentiation in studies.
8. Utilize all integrating agencies more and more consciously and purposefully as the time devoted to differentiation is increased."

It will be noted that this statement of the role of the Junior High School corresponds to the statement of the scope of the Senior High School in that it includes two distinct sets of activities; first, the old time academic activities having for their objective the increase of knowledge, and second, extra curriculum activities which have for their purpose the development of traits of character such as initiative, self-direction, responsibility, and ethical and spiritual virtues. The burden of time and emphasis in the Junior High School as in the Senior High School is laid upon the first of these classes. The difficulty in dealing adequately with the second is again the difficulty of providing time therefor. Wherever by rearrangements of the subject matter and by modification of teaching methods these aims can be assisted, the principals are making such changes. Testimony upon these points is afforded by the following quotations taken from statements made by the masters of the several junior high schools:

"While we are attempting to carry out as fully as possible the suggestions found in the Junior High School Manual, as special features it is our purpose during this year to add the

following clubs: birds, camp cooking, first aid, hiking, knitting, sewing, and short story. We shall also organize our home rooms so that they will be practically self-regulating."

SAMUEL A. JOHNSON,

*Master of the Eastern Junior High School.*

"We certainly believe in the objectives of the Junior High.

"Supervised study and the socialized recitation are enlarging the horizon of the pupils and making them more self-reliant.

"More and more the individual pupil is developing along his own lines. The grouping of pupils according to their adaptabilities stimulates the whole group, develops leadership and a spirit of kindly criticism.

"The various activities of the school generate the school spirit, deepen the community feeling and assist the pupil in gaining power by individual efforts."

GEO. M. WADSWORTH,

*Master of the Southern Junior High School.*

"During the present year we have laid stress on several objectives of education, namely: 'Command of Fundamental Processes,' 'Citizenship,' and 'Worthy Use of Leisure.'

"We have produced by constant drill a marked improvement in the fundamentals of Language and Mathematics.

"We are conducting our Civics and History lessons in such a way that there is a good deal of personal investigation of the institutions of city, state, and nation. The questions of the moment are discussed, etc.

"We hope to be able during the rest of the year to lay stress on the worthy use of leisure by organized activities after school hours and on Saturdays. We have been tendered the use of the gymnasiums at Tufts College for Saturday morning activities."

FRANK W. SEABURY,

*Master of the Northern Junior High School.*

"I wish to say that I believe in the Junior High School and feel that I can truly say it has accomplished all and more than we expected of it as far as my knowledge goes. I have organized my statement according to the seven objectives of education as laid down by Mr. Kingsley in the Junior High School Conference Report.

"We are endeavoring to develop the objectives as set forth below:

*First Objective, — Health.*

1. By physical exercise.
2. By the conducting of a Tennis Club, a Hiking Club, Hockey Team, Gymnasium work at Tufts for the girls, and by the carrying on of Football, Baseball, Basket Ball, Track and Hockey for the boys.
3. Through instruction in community health and personal health by the teachers in the class room, particularly in connection with the work in Hygiene and Civics.
4. Through discussions at the Parent Teacher Association meetings looking towards the building of a gymnasium and suitable playground for the children.

*Second Objective, — Command of Fundamental Processes.*

1. By the conducting of a Library Hour under the direction of a Library Teacher.
2. By directed learning.
3. By socialized recitations.
4. By project work.
5. Through debating.
6. Through Teachers' Meetings where plans for better methods are discussed.
7. By meeting of teachers of one subject to discuss the work that should be done in that subject by all teachers.
8. By supervision of the newer teachers by the more experienced ones.

*Third Objective, — Worthy Home Membership.*

1. Through the study of the problems in the Civics classes.
2. By Bread-making Club.
3. By French Club. (Meetings held at the homes.)
4. By the arousing in the pupils of a sense of courtesy through the means of competitive essays on courtesy.
5. By the teaching of thrift. (School Savings Accounts, Civics and talks by teachers.)
6. By the practicing in the shops of various projects which prove to be beneficial in the homes.

*Fourth Objective, — Vocation.*

1. By guidance given through Civics and home room teachers from time to time.
2. By instruction in cooking, sewing, carpentry and metal work.

3. Through personal talks of teachers to pupils in guiding them in the wise choice of a future career.

*Fifth Objective, — Citizenship.*

1. By the teaching of the subject in the Civics classes.
2. By Civics Club.
3. By student participation in school affairs.
4. By acquainting the pupils with the machinery of the Government through the election of officers in classes and clubs.
5. By inculcating the ideals of self-control and respect for the rights of others in class and club management by pupils themselves.

“Through the above we hope to teach those attributes of civic knowledge, civic interests, civic ideals, civic habits and civic powers.

*Sixth Objective, — Worthy Use of Leisure.*

“Through the Tennis Club, Hiking Club, Hockey Club, Canning Club, Story Telling Club, Debating Club, School Paper, as well as by having the sports as Football, Baseball, Basket Ball, Track Work, and Hockey.

*Seventh Objective, — Ethical Character.*

1. Through morning talks.
2. Through athletics which develop self-control, high ideals and good sportsmanship.
3. Through student participation in the affairs of the school.

“As to the future, we propose to carry on the work along the above lines for the rest of the year.”

ARTHUR L. DOE,

*Master of the Western Junior High School.*

In this comment upon the work of the Junior High School I have purposely omitted reference to their wholly inadequate accommodations. Reference to these limitations is made under the head of School Accommodations. At this point I prefer to deal only with the facts of actual accomplishment and the purposes which the schools are attempting to achieve under present conditions.

**Elementary Schools.**

The work of the Elementary schools during the past year has been largely confined to the teaching of the so-called fundamentals of education. Reading, Arithmetic, Geography,

History, Spelling, and English Composition have been the main occupations of teachers and pupils. Vigorous efforts have been made to secure the best attainable results in these studies. Approved methods have been used by all the teachers, and experiments have been made in the application of the project method and the socialized recitation method. It is a characteristic effort of the elementary schools to train pupils in independent study and in self-reliance. The discipline of the schools is of such an order as to encourage pupils to develop their individual powers to the best advantage. Along with the major studies already mentioned the schools have given instruction in morals, in thrift, in health and hygiene, in patriotism, and in civics. In accordance with the spirit of the times there is increasing need for emphasis on these subjects in the elementary as well as in the higher schools. In order to find time for an adequate treatment of these subjects, it will be necessary to reorganize the content of instruction in the other subjects. Such reorganization of the program of the elementary school is under consideration by the elementary principals and action in that direction may be taken during the present school year. An interesting investigation of the aptitudes of children for academic or manual arts studies has been conducted during the last year in certain schools by a trained psychologist. The result of this work is given in a letter submitted by Charles E. Brainard, Master of the Edgerly School, from which I make the following quotation:

“Two of our sixth grade classes, co-operating in this work, have served for the investigation, the object of which was to obtain information regarding psychological tests upon which might be based both educational and vocational guidance.

“The main underlying reason for the study is that children of academic ability are frequently found in manual training classes for which they are not well fitted, and on the other hand children possessing manual skill above the average may be struggling with Latin or bookkeeping.

“The choice between academic and manual work comes to the children at the close of the sixth grade and the beginning of Junior High School work. The study carried on by Miss Glenn, at the Edgerly School last year, is being continued and extended to higher grades and will ultimately be published. Since educational psychology is so much at the front at the present time, I think we owe Miss Glenn a very hearty vote of thanks for the help she has given us in this experimental period in which we are trying to find the best psychological



method of determining the mental efficiency of the children in different grades above the fourth.

"The time is not far distant when mental ability will form the fundamental basis for all grading, classification, and promotion."

#### Kindergartens.

In November, three additional kindergartens were established, — one each in the Bingham, Cutler, and Morse Schools. The applications for admission were in excess of the capacity of the classes. Since the opening of these schools there have been requests for the establishment of classes in other parts of the city. It appears evident that there is a strong demand in the city for kindergarten opportunities. All of the seven kindergartens are full and full membership is maintained in each of them throughout the school year. Kindergartens provide a distinct contribution to the development of young children. They are a legitimate and valuable part of a school system. The only considerations which have for so long a time retarded the adoption of kindergartens have been those of accommodations and expense. Concerning accommodations, there are now several rooms available which could be used for kindergarten classes. In Ward three, there is no kindergarten and no vacant room in any of the schoolhouses in that ward. There is, however, a strong feeling in favor of providing a kindergarten for this locality if a place for holding it can be found. Regarding the pending requests for additional kindergartens, it may be noted that it is difficult to see on what just grounds kindergartens can be provided for one locality and withheld from another locality where the opportunity and the demand co-exist.

#### Physical Training.

The School Committee has taken significant action this year in the matter of physical training and athletics by appointing an assistant director of physical training and assigning him to the duty of coach in the High and Junior High Schools. In defining the duties of this new officer, the Committee has expressed the intention of promoting the development of athletics for the pupils in the High and Junior High Schools. Hence the program of physical training hereafter to be conducted in the public schools will consist of two general divisions: (1) Required formal physical exercises, consisting of indoor classroom work and outdoor recess work. (2) Athletics, sports, and games to be promoted among the students of all grades of school. It is proposed to organize

athletics in the High and Junior High schools in such a way as to secure the participation in some form of athletics of as many pupils as possible. Thus it is hoped to create a love for outdoor physical activities and by so doing to improve the health of pupils, and to interest them in personal participation in games. The plan for such an organization of athletics among the pupils of the schools has already been prepared by the physical director, Ernst Hermann, and has been approved by the assistant physical director. This plan provides for the organizing of athletic associations in each one of the junior high schools and for inter-school games in all of the major sports. It includes the establishing of a school team in each of the major sports which shall represent the school in competitions with other schools. It provides for the maintenance of the usual High School suburban league teams of football and baseball and for the forming of other teams to represent the High School. It is believed that this plan if vigorously prosecuted will revive the interest of boys and girls in outdoor sports and will lead to a larger number being actually benefited thereby. It is believed also that such a plan will produce a larger number of students physically equipped to take part on the teams which will represent the High School. On the whole the purpose of the School Committee in starting this plan seems in a fair way of fulfillment. At the present time the first move in putting this plan into effect will be the organizing of hockey and basket ball teams. The lack of a suitable gymnasium in connection with the High School is a drawback to the fulfillment of all the plans under consideration, but an effort will be made to get a suitable place for the indoor practice of the several teams.

#### Special Classes.

Since the early part of the summer a psychological clinic, furnished by the Department of Education, has been conducting an examination of children three or more years retarded. This examination included mental, moral, and physical tests and an inquiry into the family history of the individual. When this work is completed there will be filed with the Superintendent of Schools a statement giving the history of each case. This data will show what children should be placed in additional atypical classes. The pupils in the existing atypical classes were examined and found to be properly placed in those schools. It is probable that there are children enough to fill two more atypical classes.

At the meeting of the School Committee on October 31.

1921, the following letter was received from the Department of Education, Division of the Blind:

Boston, October 31, 1921.

Mr. Charles S. Clark, Sec. School Committee,  
School Department, City Hall,  
Somerville, Mass.

To the Members of Somerville School Committee.

Gentlemen:—

We have on file in this office the names of a group of Somerville children with seriously defective eyesight. These are not blind enough to require training by the touch method yet are gaining their education at the expense of eyes and general health.

Again may we ask if Somerville is not ready to provide for these children in a class specially equipped to meet their great need? There are eighteen of these Conservation of Vision or Sight Saving Classes in Massachusetts.

During the past several months we have had several calls from the parents and guardians of Somerville children urging that more adequate attention be given than can be obtained in the ordinary grade class.

This office supplements Sight Saving Classes to the extent of five hundred dollars yearly, pays one hundred dollars toward the desks and supplies three complete sets of large (24 point) typed text books when the class is organized.

I am enclosing a list of ten applicants who have recently been seen and in the event of your deciding to open a class, we will send an additional list. I am enclosing a booklet on Sight Saving Classes and will be glad to work with you to the best of my ability.

Respectfully,

IDA E. RIDGEWAY,  
*Supervisor of Work for Children.*

This letter was referred to the Committee on Textbooks and Courses of Study with a request that a report be made at the next meeting. At the meeting of the School Committee on December 5, 1921, the Committee on Textbooks and Courses of Study reported in favor of opening a sight saving class and recommended that the Superintendent be authorized to submit a plan for such action. The School Committee adopted this recommendation. The following statement was prepared by the Superintendent for the use of the Committee in considering this matter:—

*Statement Concerning the Organizing of a Sight Saving Class  
in Co-operation with the Division of the Blind,  
State Department of Education.*

I. *Sight Saving Classes:* Sight saving classes are conducted in several Massachusetts cities in conjunction with the Department of Education. At the present time such classes are maintained in the following cities:

Seven classes in Boston, one about to be opened.

Two classes in New Bedford.

Two classes in Worcester.

One each in Brockton, Fall River, Lynn, Cambridge, Salem, Lowell and Chelsea.

Pupils for such classes are selected on the basis of careful diagnosis of optical defects and include only those whose attendance in regular schoolroom is of little benefit to themselves. Ten to fifteen pupils constitute a class.

II. *Somerville Needs:* The Department of Education, Division of the Blind, reports the list of ten names of pupils living in Somerville who should be cared for in such a class. Additional names are in the possession of the Department and will be furnished later.

III. *Pupils:* Pupils Eligible for such a class are scattered over the city. It follows that some must travel a long distance to reach the schoolhouse where the sight saving class is conducted. This makes it desirable that the session of the school should vary from the usual school-day in such way that the pupils need travel only once daily to the school.

IV. *Location:* A suitable location for such a class then would be in any building where a vacant room could be provided for such purpose.

V. *Equipment:* Equipment for such a class is simple, consisting of furniture capable of proper adjustment and books and other teaching material printed in special type.

VI. *Teacher:* A teacher trained in regular school methods and willing to specialize on the methods approved for teaching sight saving classes should be selected. The salary should be equal to that paid teachers of atypical classes.

VII. *Co-operation of the Department of Education:* The Division of the Blind co-operates with the community in the expense of this undertaking in the following way: It will give \$100-\$150 towards the purchase of furniture, and three sets of textbooks. In addition it will contribute \$500 annually towards the maintenance of the class. It is estimated that \$100-\$150 more would be required for the first outlay on teaching material.

VIII. *Location for Class:* A suitable room for such a class is available in the Highland School. This school is convenient to several lines of street cars and in that way is accessible to pupils coming from different parts of the city.

IX. *Time for Starting the Class:* Pupils eligible for such a class are already known and as the equipment required is easily procurable, such a class could be established without delay.

#### Americanization Classes.

This work has been thoroughly organized during the present school year. There is now a director with two assistants who act as organizers, supervisors, and teachers. Day and evening classes, factory, citizenship, and English classes are being conducted at the present time. A good response is being made by adults of foreign birth to these opportunities. On Columbus Day a Citizenship Day celebration was held in the High School Hall, under the direction of the School Committee. Pupils in Americanization classes were in attendance and a great deal of enthusiasm was manifested. Speakers on this occasion were His Excellency, Channing H. Cox, Governor of Massachusetts, His Honor, Charles W. Eldridge, Mayor of Somerville, and John J. Mahoney, State Supervisor of Americanization. As now organized, this department is able to provide instruction for all adults of foreign birth who are willing to receive it.

#### Morning Luncheon.

Nineteen of the schools reported in June that they were serving milk to their pupils either during the morning or at the noon recess. The schools embrace all grades from the kindergarten to the high school. Milk is served to pupils in some instances by the glass, and in others in bottles with straws. Pupils pay for their milk but arrangements are made to furnish milk to needy children free of charge. The schools report in some instances a sale of as high as one-third of the membership of the school. Along with this provision there has been instruction in the schools upon the value of milk as a food. There is a growing interest in this undertaking which was started by the principals of the buildings upon their own initiative and which has been conducted by the principals on their own responsibility. The subject of morning luncheon for young children is one now much discussed and the policy of our principals in carrying on this milk sale affords an interesting opportunity to determine by experience the values of such a provision. So far, the evidence is all in favor of the

undertaking. Several principals have followed this plan for more than a year and are confirmed in their opinion of its worth. In several schools where the Health Crusade was carried on last year records of the development of pupils were kept and improvement in weight was shown in many cases.

#### Conclusion.

While there have been no unusual occurrences in the work of the School Committee or of the schools to stand out prominently, there has been a steady progress in the work of both. Co-operation and good feeling have tended to produce the best results. As superintendent I want to express my thanks to the School Committee and to the principals and teachers for their share in the work which, continued through the year, has made these happy conditions possible.

Respectfully submitted,

CHARLES S. CLARK,

*Superintendent of Schools.*

#### REPORT OF THE HEAD MASTER OF THE HIGH SCHOOL.

Mr. Charles S. Clark,  
Superintendent of Schools,  
Somerville, Mass.

Dear Mr. Clark:—

I take pleasure in presenting for your attention the following matters of moment and interest in connection with the Somerville High School during the year 1921.

#### *Attendance.*

A very serious handicap to our schools is in the poor attendance of the pupils. Our schools are in session to give children an education. This can only be done providing our children are regular in their attendance at school. Figures in Somerville show, however, a decrease of over three per cent in our annual percentage of attendance since ten years ago. In other words there are now three more absences each day per one hundred pupils than there were in 1911. In the High School this makes sixty more absences a day or approximately 12,000 more a year; in the entire city, 84,000 more absences per year than there were ten years ago for the same school enrollment. The chief blame for this lies in the home and with the pupils who attach so little importance to the necessity

of being on the job every minute. The hardship comes now on the teacher but what about the handicap to the next generation? Some method must be devised to "follow up" attendance more closely and to impress on parents and pupils the importance of strict attention to regular attendance.

#### Physical Training.

Our school is lamentably lacking in facilities for proper development of the body. For years the need of a gymnasium has been urged, yet we remain practically alone, among the large high schools, without means for the physical training of our boys and girls. We are doing our best in a simple way, that is, by giving the pupils daily setting-up drills in the schoolrooms. We should have instead two large gymnasiums where these setting-up drills could be carried on under proper conditions and where also systematic gymnastics, corrective gymnastics, games and indoor sports could be conducted under the guidance of competent instructors.

#### Standardized Marks.

In a high school having as many teachers as ours, it is inevitable that in grading pupils' work and scholarship, there should be a great diversity of standards. Unless there is some common standard used by all, each teacher is a law unto himself in marking the pupils' work. One teacher might give "A," another "C," for the same work.

Furthermore, the record of the work of each pupil, kept at the school, according to which certificates are given to higher institutions, diplomas are granted and promotions are made, is based on the supposition that each mark has a uniform and a definite meaning.

Then, too, if reports of the pupils' work, which are sent home are to be really helpful to his parents, each mark should have a uniform and definite meaning known to the parent.

The following plan adopted by the teachers during the past year is an attempt to meet the above situation.

#### Scale of Qualities of Work

##### A.

##### 1. Knowledge of Subject Matter.

1. Memory and thought questions answered intelligently and fully.
  - a. No guessing.
  - b. No help from teacher.

2. Topical recitation.
  - a. Assigned work given clearly and thoroughly.
  - b. Outside information and volunteering expected.
3. Written work.
  - a. Statements briefly and clearly given, fully covering the assignment.
  - b. Careful wording, form, thought, penmanship, spelling, punctuation, neatness.

## II. Preparation.

1. Constant daily preparation, and regularity in attendance.
2. Preparation done rapidly and thoughtfully.
3. Written work done on time.
4. Directions of the assignment followed as an outline.

## III. Attitude.

1. Attitude in recitation.
  - a. Good position standing and sitting.
  - b. Alert and attentive.
2. Attitude toward preparation of lesson.
  - a. Ability to work alone.
  - b. Good judgment and self-control in use of time.
3. Attitude toward teamwork.
  - a. Shows leadership as well as respect for the rights, privileges, and opinions of others.
  - b. Co-operates with the teacher and other members of the class in a socialized recitation.

## B.

Good work, deserving commendation, and adequate to meet college entrance requirements.

### I. Knowledge of Subject Matter.

1. Answers to questions well-directed in thought and showing a grasp of essential points.
2. Topical recitation.
  - a. Completes assigned topic.
  - b. Frequent volunteering expected.
3. Writtten work.
  - a. Statements brief and clear, covering assignments in substance.
  - b. Careful wording, form, thought, penmanship, spelling, punctuation, and neatness.



**II. Preparation.**

1. Constant daily preparation and regularity in attendance.
2. Preparation done thoughtfully.
3. Written work done on time.
4. Directions of the assignment followed as an outline.

**III. Attitude.**

1. Attitude in recitation.
  - a. Good position, standing and sitting.
  - b. Alert and attentive.
2. Attitude toward preparation of lesson.
  - a. Ability to work without assistance.
  - b. Good judgment and self-control in use of time.
3. Attitude toward team work good.

**C.**

Fair work not wholly satisfactory, indicated by letter "C."

**I. Knowledge of Subject Matter.**

1. Irregular answers, not well-directed in thought.
2. Topical recitation.
  - a. One-half of recitation topical.
  - b. Questions from teacher necessary to complete recitation.
  - c. Some volunteering.
3. Written work.
  - a. Should contain three-fourths of the important facts in the assignment.
  - b. Some carelessness in wording, form, thought, penmanship, spelling, punctuation and neatness.

**II. Preparation.**

1. Daily preparation, constant but insufficient.
2. Not enough time spent in preparation.

**III. Attitude.**

1. Attitude in recitation.
  - a. Attention poor.
  - b. Needs frequent reminding about correct position standing and sitting.
2. Attitude toward preparation.
  - a. Requires frequent assistance and urging to effort.
  - b. Lack of ability to visualize problems and clothe the language of the textbook with reality.
  - c. Wastes time from lack of concentration and well-directed effort.

- d. Poor team work due to lack of spirited co-operation and ability to function effectively at right moment in team play as applied to classroom activities.
- e. Makes up deficiencies due to absence or failure in preparation.

### C.—

Poor work, passing but with low standing, is indicated by letter "C—"

#### I. Knowledge of Subject Matter.

- 1. Very irregular answers, thoughtful answers infrequent.
- 2. Topical recitation.
  - a. Topical recitation seldom made.
  - b. Detailed questions necessary.
- 3. Written work.
  - a. Written work contains one-half the important facts.
  - b. Serious lack in wording, form, thought, penmanship, spelling, punctuation and neatness.

#### II. Preparation.

- 1. Preparation not uniform.
- 2. Preparation covers only three-fourths of assignment.

#### III. Attitude.

- 1. Attitude in recitation.
  - a. A poor position, twisting about.
  - b. Inattentive, distracting the attention of others from the class exercise.
- 2. Attitude toward preparation.
  - a. Unable to accomplish much without tutoring and some compulsion to give attention to work.
  - b. Marked lack of ability to visualize problems and clothe the language of the textbook with reality.
  - c. Cannot be depended upon for team work.
  - d. Makes effort to make up work lost through absence or failure in preparation.

### D.

Failure to pass or to receive credit for a course is indicated by the letter "D". These should receive very serious attention in connection with remedial measures. The following are typical:

1. Little apparent effort to respond, no volunteering.
2. Only one-half or less of the assignment attempted.
3. Failure to hand in written work on time, if at all.
4. Guessing answers to questions.
5. Written work poor in form and content.
6. No effort to make up work lost through absence or lack of preparation.

### E.

Work less than "D" is indicated by the letter "E".

#### **Student Co-operation in the Administration of the School.**

The control of the modern school has materially changed from the old plan of arbitrary authority and unquestioned obedience. Although there must still be a court of final appeal, as in all forms of government, yet the opinion of the student is more and more consulted and his co-operation sought. In the Somerville High School the Students' Council is a strong medium for pupil self-determination, as well as for assistance in school administration.

#### *Organization:*

The plan of organization of the Students' Council is based on the democratic form of representation. The four officers of each class, — namely the President, Vice-President, Secretary, and Treasurer, — are ex-official members of the council. In addition, there are six other members known as Floor Proctors. These are chosen by the proctors of the individual home rooms on each floor, there being six floors in the two buildings of the High School. This plan provides a means of conveying messages and information to the room proctors of their respective floors.

The president of the Senior Class is, by the constitution, President of the Students' Council. Two members of the faculty are assigned by the Head Master as advisers. Regular meetings are held once every week, special meetings being called when necessary.

#### *Object:*

The body is known as the Students' Council of the Somerville High School.

The object of this Council is to promote the interests of the Somerville High School, to voice the opinion of the students, and to effect a closer relation between the faculty and pupils of the school.

*Activities:*

Among the matters which it has discussed are the methods of filing to and from recitations; campaigns for cleanliness in class rooms, corridors, lunch rooms, and school grounds; procuring posters and mottoes for school activities; assisting in securing better car service and reduced fares for the pupils of the school; conducting school assemblies for the promotion of school spirit, or for some particular school undertaking; assisting in campaigns and "Drives" for the benefit of the school paper, the debating societies and like activities; conducting occasionally school affairs; acting as a reception committee at public functions, such as Parents' Night. The most recent form of assistance rendered by the Council has been its effort to eliminate infractions of the school regulations. On a few occasions, when in the opinion of the Council the reputation of the school has suffered because of some serious breach of conduct, it has suggested to the Head Master a form of punishment for the misdemeanor, and has taken steps to impress upon the pupils at large its displeasure at such occurrences. In general, the Council, because of its value as a co-operating committee between the faculty and the pupils, has proved to be a great assistance to the Somerville High School.

**Record of the Preparatory Department for 1921.**

The Preparatory Department during the past year has had an enviable record. Under the able leadership of the head of the course and with the hearty and unstinted efforts of excellent teachers, many pupils were prepared for higher institutions, with practically no failure.

In September, graduates from our school entered the following institutions:

Amherst . . . . .	1	Radcliffe College . . . . .	3
Boston College . . . . .	3	R. I. State College . . . . .	2
Boston University . . . . .	10	Sargent School . . . . .	5
Dartmouth College . . . . .	4	Simmons College . . . . .	3
Harvard University . . . . .	10	St. Xavier's College, N. S. . . . .	1
Jackson College . . . . .	1	Tufts College . . . . .	12
Lowell Textile School . . . . .	1	University of Vermont . . . . .	1
Mass. Inst. of Technology . . . . .	7	Wheaton College . . . . .	1
Northeastern College . . . . .	4		
Normal Schools . . . . .	22	Total . . . . .	91

Our record at Harvard this past year was an unusual one, — in fact one of the best (if not the best) that the school has ever had. In June, 1921, 11 boys took the Harvard examinations by the new plan, each boy taking four examinations.

All boys passed.

Eight boys received honors.

Two boys received honors in three subjects each.

Three boys received honors in two subjects each.

Three boys received honors in one subject each.

15 honors were received in all.

These honors were distributed as follows:

Seven honors in Mathematics.

Three honors in French.

Two honors in Latin.

Two honors in Chemistry.

One honor in Physics.

Of the public schools fitting for Harvard, Somerville High School tied with the Springfield Central High School in the number of boys entering Harvard, September 1921.

This placed Somerville High School in the fourth place among the public schools of the country in the number of students entering Harvard.

Last year (1920-1921) Somerville High School boys at Harvard all stood well.

Two received High Distinction for the year.

Two received Distinction for the year.

Three received High Pass for the year.

From Dartmouth College our school received the school plaque because the Freshman delegation representing it secured the highest scholastic standing.

All honor to our graduates who are doing such excellent work at college, thereby reflecting great credit on their school and its excellent teachers.

#### Commercial Department.

Although the reputation of a general high school is apt to stand or fall on the success or failure of its college preparatory department, yet an equally important department, concerning which we hear much less, is the Commercial Department. This department is, as a rule, the largest in the school and is accordingly deserving of much more recognition than it usually gets.

Pupils in this course must major in either stenography or bookkeeping. By far the greater number select stenography and it is this group that I wish particularly to bring to your attention at this time. The training of a stenographer in a public school is a much longer process than in a business school. This is due to the fact that in order to receive a high school diploma, the pupil must receive instruction along many lines in addition to stenography and typewriting. English

literature, English grammar, history, foreign languages and sciences are added to the course in order that the graduate may have a greater breadth of vision and a higher degree of preparation for any position he may secure. It is generally conceded that this result obtains and the fact that our graduates from this department are in constant demand and that we often cannot supply the demand is sufficient evidence. In June, 1921, 44 pupils completed the course in stenography and graduated from the school.

The following information has been obtained regarding these pupils:

Four are continuing their studies at the Chandler Shorthand School, presumably to prepare for teaching.

Two are at the Sargent School of Physical Training.

Two are employed at the office of the Superintendent of Schools.

One is employed at the Boston State House.

One is employed at the Somerville City Hall.

Two are studying at the School of Business Administration, Boston University.

Twenty-eight have good positions in Boston, Cambridge or Somerville.

Two are at present not at work.

Of those at work, from whom we have obtained reports, the lowest salary received is \$12.00 per week, the highest \$22.50. The average salary is about \$16.00 per week.

These pupils before graduation received varied experience. Each pupil spent a week in the office of the Superintendent of Schools or the principal of this school. They also wrote many business letters for the heads of courses, prepared reports, outlines of work, examinations, etc., for teachers. They had drill in preparing attendance bulletins, lists of many kinds, notices and reports. In fact, wherever the services of a stenographer or typewriter were required, these pupils were called and did excellent work.

It is a matter of considerable pride that the teachers in both the departments of stenography and bookkeeping are of broad training and vision who have succeeded in imbuing their pupils with a keen sense of the dignity of the work and of the higher qualities which make of their labor a profession rather than a mere job.

Respectfully submitted,

JOHN A. AVERY,

*Head Master.*

January, 1922.

REPORT OF THE PRINCIPAL OF THE VOCATIONAL SCHOOL  
FOR BOYS.

Mr. Charles S. Clark,  
Superintendent of Schools,  
Somerville, Mass.

Dear Mr. Clark:—

The enrollment of the Vocational School for Boys is the largest in the history of the school and there has been an increased number of applications for admission to all departments which has necessitated carrying a waiting list.

While a financial statement or productivity record does not give a satisfactory record of efficient training in a school, yet such a record furnishes some idea of the work the school has accomplished in the last year.

The following figures are from the State Report on Productivity for the year 1920-1921.

Value of all products . . . . .	\$11,204 93
Cash received and turned back to City and School . . . . .	1,726 23
Value of products for school and city departments . . . . .	2,401 56
Value of products increasing the value of school plant . . . . .	2,268 12
Value of material furnished by customers . . . . .	2,735 62

The work of rehabilitation under the Veterans' Bureau continues. The men are becoming more skilled in their trades and valuable results accrue from their efforts. Not only are the ex-service men receiving very good training but the school equipment is being continually increased in value through repairs, new construction, and tool equipment,—all work produced by these ex-service men.

The number of ex-service men who have received training since April, 1920 is 111. A large proportion have been rehabilitated or sent to higher institutions, placement training, or into permanent jobs in industry. As soon as the present industrial situation clears up, a very large proportion of the present enrollment will be permanently placed and fully rehabilitated.

The school was open through the summer months, the Federal Board paying the entire cost of training for the additional period.

The present departments of the school are fairly complete, but new departments are needed to provide further opportunities in industry.

The following is the financial statement of the school for 1920-1921:

## Financial Statement, 1920-1921.

Maintenance 10 months . . . . .	\$26,887 35	
Maintenance Summer session . . . . .	3,972 73	
	<hr/>	
Gross maintenance . . . . .	\$30,860 08	
Income:		
Smith-Hughes Fund . . . . .	\$1,319 35	
Non-resident tuition . . . . .	4,292 02	
Veterans' Bureau . . . . .	8,000 00	
Cash from Products . . . . .	1,726 23	
Credits . . . . .	130 94	
Summer income. . . . .	4,311 64	
	<hr/>	
Total income . . . . .	19,780 18	
Net maintenance cost . . . . .	11,079 90	
Net cost per capita . . . . .		\$100 18
State Reimbursement . . . . .	5,539 95	
	<hr/>	
Net cost to City . . . . .	5,539 95	
Net Cost per capita to City . . . . .		50 09
Labor and value of products on work for School and City Departments for which no charge was made . . . . .	2,096 54	
	<hr/>	
Net Cost to City . . . . .	\$3,443 41	
Net Cost Per Capita to City . . . . .		31 13

Respectfully submitted,

HARRY L. JONES,

*Principal.*

REPORT OF THE DIRECTOR OF THE CONTINUATION SCHOOLS  
AND AMERICANIZATION WORK.

Mr. Charles S. Clark,  
Superintendent of Schools,  
Somerville, Mass.

Dear Mr. Clark:—

I herewith submit the report of the work of the Continuation Schools covering the period from September 1, 1920 to date, and of the Americanization work for the year 1921.

Continuation Schools.

On November 4, 1919, by a referendum vote, the citizens of Somerville accepted the provisions of Chapter 311, General Acts of 1919, which authorizes the establishment of a state aided Continuation School in any city or town, where two hundred minors between the ages of fourteen and sixteen are



employed under authority of employment certificates or home permits. Employed minors are required to attend school four hours per week of the forty-eight which they are permitted by law to work, and must attend twenty hours a week during periods of temporary unemployment. For such instruction, each city or town, conducting such a school, is reimbursed by the state an amount equal to one-half the net maintenance cost of the school.

In accordance with said Compulsory Continuation School Act the local school was established and was opened on September 9, 1920, as a part of the public school system. The organization consisted of a director and three teachers, two men and one woman.

The problem of the school is to provide suitable part-time instruction for fourteen to sixteen-year-old minors who leave the regular schools to go to work. The salient characteristics of the adolescent pupils are revealed markedly in this group of students. This age is a period of rapid growth, tremendous energy, physical awkwardness, quick temper, self-consciousness, strong likes and dislikes, and unrest, shown by a constant drifting from job to job.

The reasons for leaving school may be grouped under two headings, namely, reasons related to economic conditions in the home, and reasons related to conditions in the regular schools. Lack of interest in the regular school work results in failure, failure causes discouragement and discouragement creates a desire to leave school. Contrary to expectations the larger number leave school for reasons related to conditions in the regular schools.

These characteristics and reasons for leaving school determine the functions of the Continuation School, which are: (1) the conservation of the education already acquired and the extension of it; (2) vocational guidance, facts for which are obtained by (3) follow-up work; (4) placing minors in better jobs; and (5) tying school work to the job.

The functions of the school determine the plan or the program of studies. In order to provide for the conservation and extension of education already acquired, especially for those who found conditions in the regular school uninteresting, it was necessary to adopt a methodology based on interest factors. For instance, these factors in English and Arithmetic are derived from the pupil's employment and his outside interests such as sports and recreations, which make the lessons very different from those which the children dislike in the regular schools. Civics and Hygiene are taught with the basic idea to make good citizens. It is more important to the Continuation School pupil to know his duty to his family, his neighbor-

hood and his community, and how to care for his health that he may better serve his employer, than to know the number of members in the Senate at Washington, or the names and locations of all the bones of his body.

An intelligent choice of vocation cannot always be made for various reasons, namely:

- (1) Desirable openings are not always available.
- (2) The background of experience is lacking.
- (3) Childish whims and the ill-formed ideas of parents generally are accountable for the choice.

Vocational Guidance is the antidote and may be administered in two ways:

(1) Either by furnishing the background of experience by the practice of actual shop work in well-equipped shops conducted on a commercial basis, or

(2) Through discussions on the opportunities of various commercial and industrial callings, and through conferences with individuals, growing out of follow-up visits to the homes and places of employment. The small school must, of necessity, use the second method. Follow-up visits bring the home, the employer, and the school into close contact, and the pupil is considered in relation to his individual needs.

With these functions as a base, the program of studies is divided equally between academic and practical arts subjects. The academic work, for both boys and girls, includes oral and written English, Civics, Hygiene, Mental and Oral Arithmetic and Spelling. All academic subjects are related as closely as possible to the practical work which consists of household arts, cooking and sewing for the girls, and woodworking and general household repairs for the boys. It is our desire soon to add home nursing to the program for the girls, and sheet metal and electrical work for the boys.

Three rooms in the High School building were given over for our exclusive use, and a fourth has been used jointly with a High School Manual Training class. The milling machinery already in use in the High School, and sewing machines, a power machine, gas stoves, kitchen and dining room furniture, dishes and cooking utensils formerly used at the Girls' Vocational School were also placed at our disposal. Expense of installing new equipment and increased overhead charges were thus avoided.

New pupils are entering the school each week, making group instruction an impossibility within a short time of the opening of school; therefore, the class work must be individual to a large degree.

In the shops exercise work is reduced to a minimum, and all projects are man-sized, marketable products. Already

our list of products in the boys' school, all of which have been sold, and our large repeat order list, include baby swings, waste baskets, telephone tables and chairs, tea wagons, costumers, taboretts, ironing boards, kitchen tables, etc. In the girls' school marketable products were prepared for the high school lunch room and many articles of wearing apparel were produced by the sewing class. Our productivity returns to the State Department of Education showed, to June 30, 1921, products having a market value of \$958.81.

The membership of the school is always a varying quantity, due (1) to the dropping out of those who become sixteen years of age, and (2) to constant changing of city of employment by the students. During the school year 1920-1921 the total number of different students enrolled was 382, of which 157 were girls and 225 were boys.

About November 20, 1920 the business depression which swept the country caused a large increase in the group of temporarily unemployed minors who were required to attend Continuation School twenty hours per week. This problem is distinct from the problem of the four-hour group and involves a larger provision for room, instruction and equipment. In order to provide for this group an extra woman teacher was added to the corps. Business conditions are now tending toward normality, but the enrollment for this year to date is smaller than for the corresponding period of last year. The decrease in enrollment is due to the fact that more students of our school are becoming sixteen years of age than the number who are leaving regular schools to go to work. The scarcity of jobs makes the number who are leaving the regular schools far below normal, for no minor under sixteen years of age may leave school until he has a promise of employment.

The organization of this school was greatly facilitated by advice and suggestions from the Superintendent of Schools, and the High School administration has co-operated to make the school a success, and I wish to express my appreciation to all those who have shown interest and aided in the work.

#### Americanization Work.

Somerville, in common with many other cities in Massachusetts, especially those on the Atlantic coast in close proximity to ports of entrance, has many residents of foreign birth. Since the beginning of the World War the number has been increased by the large influx of immigrants to this country. A large number of these speak only the language of their native country, while others are wholly illiterate. The census of 1920 shows that there are 1200 persons, twenty-

one years of age or over, who are unable to write in any language, regardless of their ability to speak or read English. These people cannot mingle easily with English speaking people and they are at a disadvantage in all ways, especially in the matter of becoming acquainted with local institutions of government and society, and of becoming imbued with American ideals. Participation in governmental matters is not within their reach, due to regulations controlling naturalization. This condition is so serious that all units dealing with government have seen the necessity of giving the matter earnest consideration.

Massachusetts, which is acknowledged to be the leader in this respect, has passed a fine piece of legislation in Chapter 295, General Acts of 1919, later changed to Chapter 69, Revised Laws. This act authorizes any city or town, in co-operation with the State Board of Education, to establish classes for instruction in the use of English for adults unable to speak, read or write the same, and in the fundamental principles of government and other subjects adapted to fit for American citizenship. For such courses, the Commonwealth shall reimburse the city or town an amount equal to one-half the total expense of supervision and instruction.

On October 6, 1919 the School Committee voted to accept the provisions of Chapter 295 and, in consequence, classes were organized at the evening school centers at the Bell and Highland Schools and at the Glines School during the fall season of 1920. In November, 1920 a Director for the work was appointed and during the year 1921 two full time women organizers were added to the administration. The organizers also supervise and instruct as part of their duties.

The work already established was reorganized and reclassifications were made, conforming with the specifications of the State Board of Education, Division of University Extension, Department of Americanization. The students were graded in three groups, termed Beginners, Intermediates, and Advanced. The qualifications for these grades are as follows:

**I. Beginners.**

- a. Ability to talk. Pupils having no power of oral expression with or without some ability to understand the simplest forms of expression.
- b. Ability to read. Pupils able or unable to read in their own language, but unable to read simplest English intelligibly.

- c. Ability to write. Pupils able or unable to write in their own language but unable to write simplest English sentences from dictation.

## II. Intermediates.

- a. Ability to talk. Pupils able to speak some English well, those who have completed a Beginners' Course, or have had considerable association with English-speaking people.
- b. Ability to read. Pupils able to read simple sentences with understanding.
- c. Ability to write. Pupils able to write from dictation and able to compose short letters with some correctness in form and spelling.

## III. Advanced.

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Ability to talk, read and write to a sufficient degree to be able to study principles of civics and government and history leading to an examination for Naturalization.

Certificates showing progress through the various stages of this program are provided for the students by the State Department.

New classes were organized and developed whenever the demand required, and new centers have been opened in the Bennett, Bingham, Morse, and Knapp schoolhouses. Factory classes have also been organized at the plants of the North Packing and Provision Company, New England Dressed Meat and Wool Company, Hinckley Rendering Company and at the factory of H. M. Hillson Company. Mothers' classes, meeting afternoons at the Glines, Morse, and Knapp schools, have been very popular and well attended. A Citizenship class which was organized at the club house of the Italian-American Citizens' Club of Winter Hill, was rewarded by the announcement by the Federal Examiner that all taking the examination had passed. The number of classes has been increased three-fold and the enrollment has been more than doubled.

A few years ago it was the general opinion that anyone could teach an evening school class, especially one composed of non-English speaking people. Later, trained day school teachers were found working in these classes, but it was soon found that the methods for day school work with children, without adaptation, cannot be made to serve for Americaniza-

tion classes for adults. There is a distinct pedagogy in this work with adults and a very distinct methodology; therefore, teachers for these classes must be specifically trained for the work.

A careful study of methods has shown that the Direct Method is the proper one to use in the teaching of English to non-English speaking adults.

In view of the scarcity of specifically trained and qualified teachers for this work in Somerville, a fifteen lecture Teacher Training Course was conducted for us by the State Department.

At the opening of schools this fall, in order to stimulate and arouse interest in the cause, both among the foreign-born and older residents of the community, a Citizenship Day Celebration was held on Columbus Day, October 12, under the auspices of the School Committee. The main feature of the celebration was the public mass meeting held in High School Hall, at which His Honor, Mayor Charles W. Eldridge presided and His Excellency, Governor Channing H. Cox made a patriotic address in which he told of the advantages enjoyed by American citizens which are denied the peoples of other countries. He urged the foreign-born to continue their education, at least until they were able to become naturalized. John J. Mahoney, State Supervisor of Americanization, spoke along the same lines.

Preceding the exercises in the hall there were spectacular parades from the Morse, Glines and Bennett districts. Music was furnished in the hall, on the grounds and for the parades by the 101st Infantry Band.

The appended table shows the scope of Americanization work in operation when the schools were closed for the Christmas recess.

Plans are under consideration for the establishment of several additional factory classes and mothers' classes in sections of the city where classes of this sort are not now conducted. Citizenship or Naturalization classes will be organized in any locality where a sufficient number of petitioners are found.

The results of the work during the year have been exceedingly gratifying to me, and I wish to give the credit and express my appreciation to the organizers, supervisors, and teachers for their faithful, earnest, untiring efforts to bring about the desired results.

Respectfully submitted,

EVERETT W. IRELAND,

*Director.*

LOCATION OF CENTER	TYPE OF CLASS							TIME				No. Enrolled	TEACHERS	
	No. of Classes	Beginners	Inter-mediate	Mixed	Citizen-ship	Mothers' Afternoon	Factory	Days	Hours P. M.	Sessions Per Week	Length of Ses in hrs			Hours Per Week
Glines School .....	3							M.W.F.	7.30-9.30	3	2	6	22	Florence W. Schroeder
		1						M.W.F.	7.30-9.30	3	2	6	31	Mrs. Etta D. Ellsworth
					1			W.F.	2.00-3.30	2	1½	3	20	Mrs. Etta D. Ellsworth
Morse School .....	4							M.W.F.	7.30-9.30	3	2	6	31	Elisabeth S. Webster
		1						M.W.F.	7.30-9.30	3	2	6	39	Alice M. Hayes
				1				M.W.	7.30-9.30	2	2	4	28	Mary A. Whitney
					1			Tu.Th.	2.00-3.30	2	1½	3	17	Mary A. Whitney
Bell School .....	2							M.Tu.Th.F.	7.30-9.30	4	2	8	76	Sara S. Coyne
		1						M.Tu.Th.F.	7.30-9.30	4	2	8	58	Mary A. Macklin
Highland School .....	1			1				M.Tu.Th.F.	7.30-9.30	4	2	8	38	Myrtle M. Irwin
Knapp School .....	2							M.W.F.	7.30-9.30	3	2	6	33	Mrs. Melissa M. Lloyd
				1				M.W.	2.00-3.30	2	1½	3	15	Mary A. Whitney
Bennett School .....	2							M.W.F.	7.30-9.30	3	2	6	26	Harriet F. Ward
				1				M.F.	7.30-9.30	2	2	4	17	Estelle M. Crowe
Bingham School .....	1			1				M.W.F.	7.30-9.30	3	2	6	33	Olive M. Brownell
N. E. D. M. & W. Co. ....	1					1		F.	4.00-5.30	1	1½	1½	42	Mary A. Whitney
Hinckley Rendering Co.	1					1		Tu.Th.F.	12.00-1.00	3	1	3	13	Mrs. Etta D. Ellsworth
H. M. Hillson Co. ....	1					1		Tu.Th.	5.00-6.00	2	1	2	20	Mrs. Etta D. Ellsworth
	18	3	3	5	1	3	3			49	32	89½	559	

## REPORT OF THE GARDEN SUPERVISOR.

Mr. Charles S. Clark,  
Superintendent of Schools,  
Somerville, Mass.

Dear Sir:—

Permit me to submit a report of my work as garden supervisor and agricultural teacher for the season of 1921.

**School Gardens.**

At the end of three years, dealing with boys and girls in the City of Somerville along the lines of garden work as a form of healthful and useful education, I feel as though I am qualified to make the statement that the successful carrying out to a completion of this definite project has been a success in Somerville. The general consensus of opinion among adult persons has been that children of fifth and sixth grade ages would not show an interest sufficient for them to actually complete a project such as that involved in the proper care of a garden. This year sixteen schools with a total enrollment of three hundred and thirty children cultivated approximately nine acres of land within the city limits, most of which was located on the City's Public Parks. Of these three hundred and thirty children, all but eight fulfilled all of the requirements and carried the work through to a successful finish. This was done in spite of the fact that the season of 1921 from the standpoint of weather conditions was one of extremes, which makes the carrying on of garden work very difficult and at times very discouraging. I truly believe that the lessons learned and the experiences gained by the three hundred and thirty boys and girls who had school gardens this year will be of lasting benefit to them in years to come. Very few changes were made this year in the conducting of school gardens. Each participant was given a piece of land containing three hundred square feet. The land itself was plowed, covered with dressing, and put in a condition for planting by the City Engineer's Department. All seeds and plants used in the school gardens were purchased by the supervisor, the children paying the cost of the same, which was 85 cents this year. All products raised were the property of the children to do with as they wished. The gardens were actually planted and cared for up to the close of school during school time, which in most cases amounted to about two hours per week. During the vacation the supervisor spent one-half day each week at each plot of land and every school gardener was expected to



be present that half day at least to care for his garden. The attendance during the summer vacation, even on the hottest days, is positive proof in itself that boys and girls are interested and are willing to work if they have the proper incentive and encouragement. As has been the case for the last two years, one of the requirements of garden work is the keeping of a garden record book. Each gardener is provided with such a book and an accurate record of all products taken from the garden and the disposition made of them is kept together with all expenses incurred in operating their garden. From a careful analysis of these record books the following figures may be of interest and show to a certain extent results of this work. The total value of all crops raised was \$8,000. This amount is divided into three parts; \$1,500 was sold by the children, \$4,500 was the value of the vegetables carried home and used by their parents, \$2,000 represents the value of the vegetables taken from the school gardens and canned for use during the winter months. One of the great advantages from canning work is that the boys and girls are organized into clubs and as such receive recognition from the State Department of Agriculture and the County Bureau of Agriculture and Home Economics. Through these two mediums, a keen interest is worked up among the participants in the offering of suitable prizes and the chance to make exhibits at various fairs and expositions in competition with club members carrying on similar work throughout the whole state. This year garden club members made exhibits at the Massachusetts Horticultural Society's Exhibit at Horticultural Hall, Boston; at the New England States Fair, Worcester; and also at the Middlesex County Fair at Waltham. At the horticultural exhibit in Boston, they won several cash prizes. At Worcester first prize of \$20 was awarded the Somerville Garden Club in competition with similar exhibits from all over the New England States. \$22 in money was also awarded the different exhibitors at the Waltham Fair.

#### Canning Clubs.

Canning clubs were organized and conducted through the two summer months by two school teachers employed by the Recreation and Playground Commission to carry on this work under my supervision. Five clubs were organized with a total enrollment of sixty-five children. The work was carried on at two canning centers, one in the Western Junior High School, the other at the Senior High School where the equipment necessary for the carrying on of this work is provided. Most of the children belonging to the canning clubs had a school garden

so that the vegetables canned during the season were freshly picked and of good quality which insures a canned product of the best. These canning clubs are also enrolled with the State and County Agricultural Departments and receive aid and benefit from them both. Canning club members are not only taught how to properly can all kinds of fruits and vegetables but they must be able themselves to explain and properly demonstrate the different steps necessary. Three girls, members of our canning clubs, were chosen as a demonstration team to represent Somerville in canning competitions carried on by the State Department of Agriculture. These competitive examinations were held at Watertown, Worcester, and Springfield. As a result of their superior work, they captured the first prize and are known as the champion demonstration canning team of this state for the year 1922. At the close of the canning season a public exhibition of their products was held in the basement of the Senior High School at which time two competent judges from the State Department of Agriculture were present and judged their products. Some idea of the quality of the work done by these children, whose average age is 13, may be determined from the score card returned to the supervisor by the judges. The average score obtained by all of the sixty-five members was 93.5; the highest score being 96.4.

#### Winter Instruction.

During the winter term, classroom instruction to boys and girls was given in the fifth and sixth grades along simple lines of garden work. By means of this instruction, the children having gardens were better prepared when the time for actual garden work was at hand. A supply of flower and vegetable seeds put up in small packages was purchased by the supervisor and sold to the school children at cost. In this way reliable seeds of the varieties best adapted to garden conditions found here in this city were placed in the hands of children. About 16,000 packages were disposed of in this manner. Through the co-operation and courtesy of the Warden of the City Farm, flower and vegetable seeds were started in the greenhouse and then transplanted to cold frames and later used in the school gardens. Children from the schools in the western part of the city were given valuable lessons in this phase of garden work, and it is the earnest desire of your garden supervisor that children in other parts of the city may get a little of this experience by means of the placing of some cold frames in the school yards. The cultivation of flowers was given more prominence in my work this year. I believe that if the children of this city can be interested in the cultivation

of the more hardy and quick-growing flowers, the general appearance of the homes as well as the grounds surrounding our school buildings will greatly benefit. This year flowers were planted in beds about the buildings of five of the school-houses and the children themselves cared for and looked after the same all during the season. This fall about 4500 geranium slips were started in sand boxes in the school rooms and later transplanted to individual pots. These have been growing in the school rooms all winter and will be used for bedding purposes around the building in the spring.

#### Home Economics.

In each of the four Junior High Schools, bread and garment making clubs were successfully carried on during the winter months. These clubs were conducted after school hours by teachers who gave their time and services for this purpose. The rules and requirements of the State Board were complied with and very satisfactory results have been obtained. Each club has completed all these requirements and made a public exhibition of their work. At this exhibit a competent judge from the State Board was present, scored the exhibits, and made the award of prizes. A member of the club at the Southern Junior High School has been selected to represent the State of Massachusetts at a convention to be held in some Southern States next summer, which brings more notoriety to our city. She was chosen from among a great many other club members from all over this state.

In closing, permit me to express my appreciation to all those who have shown an interest and have been a help in this branch of school work. It is through the co-operation of principals and teachers and the interest and work of the boys and girls themselves that this work has been made a success.

Very truly yours,

WILLIAM B. MOORE,

*Garden Supervisor.*

#### REPORT OF THE SUPERVISOR OF PHYSICAL EDUCATION.

Mr. Charles S. Clark,  
Superintendent of Schools,  
Somerville, Mass.

Dear Sir:—

Socialized physical training in the public schools of Somerville is now well established. We have many hundred

very capable pupil-leaders in the primary and grammar grades and in the Junior High School and in the Senior High School.

This has been accomplished through the enthusiastic and capable work of our masters, principals, and teachers. It is generally conceded by expert visitors that our formal gymnastics, our setting-up exercises, and our classroom games, are most vigorous and intensive and it is further conceded that this is due to the system of pupil leadership, which was first developed here in Somerville.

This system is psychologically sound. It has led to a more vigorous participation of all pupils in daily exercise than has been possible to achieve elsewhere where all the leading is done by the regular classroom teachers. This is, therefore, a very valuable innovation because it insures a high degree of physiological efficiency of every pupil during school hours.

The system in addition has high social values since it systematically develops and trains leaders, not only in physical activities but in all school activities. This in turn will fit our boys and girls to find places in the ranks of leading men and women in the larger affairs of city, state, and country.

On account of my firm belief in the efficacy of socialized physical training as a means, not only of furthering physical and mental hygiene, but also social welfare, and, because I believe that we should now extend this system to extra-school sports, games, and plays, it may be well to indicate some of the value of stimulating leadership.

I believe that physical education in elementary schools should primarily promote a vigorous and universal play life.

The application of psychology in physical education overwhelmingly proves that children love to play games. The old racial instincts are within the child. These would find universal expression in vigorous and wholesome motor activities, but are retarded, and finally stunted, by modern environment. Under modern conditions these instincts find motor outlets mostly in semi-active activities. The whole reacts unfavorably upon physical development, upon intellectual training and upon citizenship.

This is borne out by the rapid growth of show places and movie shows catering daily to a large percentage of our children in every city and town.

The inability of parents to play with their children and the growing decline of physical work and active forms of recreations of children in the home and nearby, and the prosaic work of home chores add their share in the decline of spontaneous indulgence and love for a vigorous motor life. The children follow the parent's trend in seeking passive forms of recreations, thereby lowering still further the reservoir of sur-

plus nervous vitality, which can only be built up through vigorous exercise of the fundamental muscles and a resting of the more delicate reserve centres.

Inheritance plus environment determines the child's physical and mental development.

The motor experiences of the past of the race have pretty definitely fixed our instincts and public education cannot afford to neglect these instincts.

Education cannot be successful if on the one hand it emphasizes drill and regimentation in difficult and unpleasant tasks and if on the other hand it neglects to emphasize tasks which are pleasant and easy to learn and therefore instinctive.

Such a scheme cannot promote vigorous health because it systematically impairs nervous energy instead of creating surplus vitality.

It is bad enough that we are having a growing percentage of school children who develop abnormal postures and poor body mechanism. This forces us to employ corrective gymnastics and setting-up drills. I believe that the paramount function of physical education should be preventive training which will make, in the future, corrective gymnastics less needed.

We must employ methods which will stimulate vitality and nervous energy by means of actions that are mostly instinctive.

We must use the inherited instincts for certain motor activities by modifying our schoolroom environment and our methods so that the children can do daily what they want most to do and which comes easy for them to do.

Regimentation in physical education has its important function and should have a place in our program, but our first aim must be to nurture the love for a vigorous motor life which is within each child and which we systematically inhibit in the modern home and in our modern school methods.

We all recognize the disappearance of opportunities for a rich and spontaneous neighborhood play-life in our modern civilization. Until recent decades man's mental as well as physical evolution was accomplished through the use of his muscles, and his social advancement came about through co-operative activities and progressive development of group organization.

We must remember that this evolution was greatly enhanced by the fact that children have always imitated in their play-world the work and life of their elders.

Instinctively they recapitulated the life-history of the race, and instinctively, they advanced to co-operative group activities and to co-ordination to leaders.

Our American schools must help in reconstructing a child-

world, and if we try to do this we will find the sad fact that our child-world lacks child leaders, and that there is but little in our schools which will stimulate small group organization.

The dearth of child leaders in our present day meagre child play-world is undoubtedly due:

1. To the physical environment; stone pavements restricting the first instinct for running, skipping; no trees, no shade, no earth to dig in, no plants to plant, no animals to care for, only flats, only apartments, only small cages everywhere.
2. To the frequent change of domicile of parents, thereby preventing children of equal age and related instincts from getting thoroughly acquainted, thereby interfering with the formation and organization of groups and gangs.
3. This increases difficulty of forming homogeneous groups. It prevents the groups from recognizing capable leaders, and prevents the natural born leaders from practising leadership.
4. This is further emphasized by racial, religious and political differences, breaking up the grown-up neighborhood life. This in turn interferes with the stimulation formerly received through children's play while visiting in a number of congenial homes. This exerted formerly profound influence upon physical, mental, moral and social development.

Earl Barnes says in his book "The Psychology of Childhood and Youth" — "In the past, leaders originated ideas, they initiated movements, they gathered a following about them, they trained them to their point of view, and they created new conditions, new opportunities and new institutions.

"The group followed leadership with eagerness and later learned discrimination. Frequently different leaders led in different activities.

"In the traditions of primitive society it is a divinity or a hero who founds the city, establishes laws, settles government, wins wars, or invents writings, music, dances and games."

Thomas Carlyle in his "Heroes and Hero Worship," shows this also. — "The genetic view of *modern* society minimizes the value of individual leadership. We see that governments and religions grow, and they cannot go far ahead of the development of the people. The degree of economic determinism also limits both the group and its leaders.

"We have also learned how tradition gathers around

personality, blending under one name the virtues and acts of many people. And yet we recognize that individual variants may give us leaders of incalculable value for all the purposes of life."

#### What Makes Leadership?

The leader must have courage, even daring, a strong will and self-esteem, for he must be able to stand alone. He must have vision and inventiveness, for he must lead the way.

He must have a keen sense of the values in others, that he may select able assistants.

He leads through affirmation, repetition, and contagion.

#### Loyalty Among Children!

In their weakness and absence of sense of law, and with their strong gregarious instinct, children naturally attach themselves strongly to persons. They love to lead and they love to follow. Leadership with them, as with savages, is largely a matter of strength. The boy who can lick the others, jump farther, or do more daring things, becomes captain.

Intellectual supremacy counts for little. Discipline is maintained mainly by force and fear, though if the leader has a sense of *fair play* it helps him in the long run.

#### Leadership Through Prestige!

About the age of twelve, various forms of what we may call made-up leadership become important. Social position begins to be recognized. Wealth and the possession of a fine home, servants, and carriages, may give a child an enviable position. A little later, the way he wears his clothes, his manners, intellectual ability, or marked self-control give him a position of prominence.

#### Two Kinds of Leaders in America!

The masses admire strenuous characters who bluster and who also deliver the goods, the political bosses.

The more intelligent class admires and follows intelligent, self-controlled, and devoted men.

#### A Democracy Must Work to Increase This Second Class.

Here we have the mental, moral and social significance of the value of stimulating pupil leaders in physical education. What an opportunity in turning our teachers from mere teachers of physical stunts into organizers of an efficient play-world of children; from mere lecturers of personal hygiene into engineers of psycho-physical happiness.

We find the physical significance of the value of promoting pupil leadership in physical education, in the child's fundamental faculty of learning by imitation. It is much better for him to imitate the vigorous, graceful, normal and child-like poise and movements of his mates than the fancy and age-handicapped movements of us teachers.

Let me point out the wonderful possibilities which will develop if these same very capable pedagogues and experts of child nature would devote their energies to finding among the strong and vigorous, and the straight and graceful, those children who have the elements of good leaders in their mental, moral and physical machinery and then train these for self-controlled and devoted leadership.

All this can be done in every classroom by organizing six to eight groups. This can be developed further by the help of school yards and playgrounds and by gardening and excursions into the woods and fields; not only in formal gymnastics as part of our medicine which we modern people must learn to take, but in games and play, in teams and clubs in scouting and gardening, in hiking and marching.

These germs planted in the daily sessions in the school room will germinate in the play-world, in the home and back yards and on playgrounds.

Even if we have a specialist of such a broad system of motorizing, socializing our children in every city school building, unless this specialist develops pupil leadership he cannot have effective hygienic practice daily in every school, but at most he can have only two sessions a week in the gymnasium. This may be good as far as it goes but it can at best be only academic regimentation.

We should teach ideals just ahead of the group, teach heroes daringly, "a diamond with a flaw is better than a perfect pebble." Recognize leadership in the home and in the school. Give it its head; give it opportunity for expression through varied organizations, emphasize fundamental and instinctive motor activities.

Emphasize general excellency; moral excellence may give us prigs; intellectual ability may make exploiters, physical strength may make brutes.

Work for character; praise it; and give it room to act.

I beg to submit, therefore, this outline of a program for the development of a broad system of physical training which will lead to the participation of large numbers of students in athletics, sports and games, in addition to required formal physical exercises.



This program, to be effective, should ultimately include every boy and girl, i. e., it must give an opportunity for the weakest as well as the strongest pupil to participate in some form of wholesome physical activity in addition to the required gymnastics and setting-up exercises.

Even if it were a financial possibility for the School Board of Somerville to furnish each Junior High School with a paid director of physical training for the inauguration and carrying out of such a broad program of school and extra-school activities I would advise against it, since it could easily become too arbitrary and since it could not give to the student body the social experiences and training which are so essential in American education.

“To emancipate each child from external restraint and guidance and to make him self-directing and self-supporting.”

— PROF. PAUL HANUS. *“Aim of American Education.”*

To meet the physical needs of every pupil a carefully selected variety of athletics, games and sports could easily be selected and the rule be made that every pupil, in order to receive credit, must participate regularly in one or more of these activities.

It would be a comparatively easy matter to work out a system of checking and credits, etc., but on account of the psychological significance of these activities they are our best means for intensive social training.

There is a natural love, a natural interest and enthusiasm for games and sports, etc., in every normal youngster. If this natural fascination is directed into wholesome and healthful individual and social or co-operative activities they can easily be organized into self-directing social groups. This natural liking with the variations of athletics and tastes must be given the fullest opportunities for self-expression, and this can best be accomplished under pupil leadership and self-management with the sympathetic guidance of expert advisors.

These expert advisors should be, on the social side, a capable school teacher, and on the technical side a capable coach or physical training expert.

The splendid work which is already being done in our Junior High School in Physical Training under pupil leadership and with the most excellent sympathetic social guidance of masters and teachers, is sufficient evidence that a program of sports and games, of military tactics, of hiking, of drum and fife corps, of bands, etc., etc., is bound to be very successful because in comparison all these are vastly more interesting than the formal setting-up exercises.

This whole scheme of coaching in certain sports and the teaching of certain games which can be carried on even in our school yards, provided more attention were given to their upkeep, should be handled somewhat like our training of pupil leaders in the Junior High School. Each Junior High School has sent on an average, fifty pupil leaders to the armory. With these a teacher-advisor was always present. This teacher took in the instruction which the director of physical training gave to the leaders. The leaders were taught the technique of the exercises and were taught to handle their classes and divisions. The reason we had a teacher with each group was the necessity of having somebody in each school capable of advising the leaders during school hours or at any time they needed assistance. In this manner we have annually trained from 200 to 400 to be capable leaders. They have done most valuable work which has been noted by many experts in physical education as a most remarkable value of pupil leadership. The scheme of developing physical activities for children outside of setting-up exercises should be handled in the same manner. This does not mean that we are to inaugurate only major sports but that we must develop a large variety of activities which can be carried on in school yards and small fields and on streets which are safe for play. I believe that this is the most effective plan for developing a broader system of education in Somerville where we are handicapped by lack of halls, gymnasiums and proper school yards. The scheme will have to be started with a very few activities and the director of physical training will probably have to give a regular course of training to these leaders, in games suitable to our conditions in Somerville. But where larger sports are possible we will have the benefit of a unified system of coaching which insures our boys coming to the High School well prepared for participating in varsity contests with other cities and towns.

The same system should, of course, be extended at once to the girls of the Junior High Schools. If we aim at greater health of our future young manhood, we should really begin with womanhood. Yet it is my conviction that organization and management as well as activities be segregated as much as possible since it is for the best interest of girls that they practice somewhat gentler sports than boys.

This scheme as outlined above is the least expensive of any scheme of physical education now in use in this state. I most earnestly urge its approval for immediate adoption.

Respectfully submitted,

ERNST HERMANN,

*Director of Physical Education.*

## STATEMENT SHOWING DISTRIBUTION OF HIGH SCHOOL PUPILS

## By Courses, December 1921.

	I Yr.	II Yr.	III Yr.	P. G.	Total
College . . . . .	179	96	154	9	438
Scientific . . . . .	78	84	51	....	213
Normal . . . . .	20	5	23	....	48
General . . . . .	160	106	113	....	379
Commercial . . . . .	357	232	289	7	885
Total . . . . .	794	523	630	16	1963

## By Subjects, December 1921.

English . . . . .	1963
Elocution . . . . .	718
History . . . . .	1245
Algebra . . . . .	429
Geometry . . . . .	1261
Trigonometry . . . . .	42
Latin . . . . .	383
French . . . . .	828
Spanish . . . . .	412
German . . . . .	29
Greek . . . . .	23
Chemistry . . . . .	336
Physics . . . . .	74
Physiology . . . . .	393
Biology . . . . .	84
Astronomy and Geology . . . . .	33
Stenography . . . . .	643
Typewriting . . . . .	652
Bookkeeping . . . . .	372
Penmanship . . . . .	770
Commerce and Industry . . . . .	339
Business Practice and Salesmanship . . . . .	171
Business Arithmetic . . . . .	149
Manual Training . . . . .	176
Mechanical Drawing . . . . .	324
Freehand Drawing . . . . .	155
Cooking . . . . .	74
Sewing . . . . .	156
Textiles . . . . .	13
Food Study . . . . .	13
Commercial Law . . . . .	106
Arts and Crafts . . . . .	26
Millinery . . . . .	22
Household Management . . . . .	7

## HISTORY OF THE SOMERVILLE HIGH SCHOOL.

EDITH L. HURD, A. B., LL.B.

*Teacher of English, Somerville High School.*

The development of the Somerville High School may be divided into four periods;—the first extending from 1852, when the school was first organized, to 1872 when the structure known later as the Somerville Latin school was erected; the second extending from 1872 to 1895 when the English High School building was erected; the third extending from 1895 to 1911 when the Latin High school and the English High school were united to form the Somerville High school; and the fourth extending from 1911 to the present time.

On April 28, 1852, the first high school building at the corner of Highland avenue and School street was dedicated, and on May 3, 1852 the school opened with two teachers and sixty-one pupils in attendance. The town report of March 6, 1854 states that the subjects taught were reading, writing, arithmetic, grammar, geography, history, algebra, geometry, trigonometry, natural philosophy, drawing, Latin, French, and composition.

On March 4, 1872, the second period in the history of the school begins with the dedication of the second high school building known later as the Latin school. At this time the school had six teachers and one hundred and eighty-one pupils.

**Course of Study.**

“The objects of the school are three in number:— as a finishing school to prepare the pupils for active life; to prepare pupils for college; to prepare pupils for scientific and professional schools.

“There are three courses of study: the Regular Course; the Classical or Preparatory to College Course; the English Course. Each course requires four years.

**First Year.— Regular Course and Classical Course.**

Algebra, General History, English Literature and English Composition, Latin. Bookkeeping may be taken instead of history the first half of the year.

**English Course.**

Arithmetic, Grammar and Composition are substituted for the Latin of the Regular Course.

**Second Year. — Regular Course.**

Physics, Geometry, English Literature and English Composition, Latin.

**Classical Course.**

Latin, Greek, Physics, Geometry, English Literature and English Composition.

**English Course.**

Physiology and French are substituted for the Latin of the Regular Course.

**Third Year. — Regular Course.**

Chemistry, English Literature and Composition, Latin, French.

**Classical Course.**

Latin, Greek, English Literature and Composition, Ancient History and Geography, Physics, French, a review of Arithmetic, Algebra, and Geometry.

**English Course.**

Civil Government and Natural History are substituted for the Latin of the Regular Course.

**Fourth Year. — Regular Course.**

Geology and Mineralogy, Astronomy, History, Botany, French, English Literature, Rhetoric and English Composition. Latin may be taken as an extra study two, three or five times a week, or substituted for one of the other studies. Geology and Mineralogy, Astronomy, and Botany are pursued half the year.

**Classical Course.**

Latin, Greek, French, Mathematics, English Literature and Composition. Reviews of earlier studies.

**English Course.**

Same studies as in the Regular Course.

The course preparatory to college is identical with the Regular Course during the first year. Parents are thus not

called upon to decide in regard to the preparation of their sons or daughters for college until after a trial of one year in high school studies.

Capable pupils, at the request of their parents, are allowed to pursue extra studies during any year.

Pupils are allowed five years instead of four for completing any course, if the parents make such request, in which case a smaller number of studies is pursued each year.

Those wishing to change from one course to another are allowed to do so at the beginning of any year.

No classes are formed for less than four pupils.

Pupils in a course preparatory to the scientific schools take a part of the studies in the Regular Course, a part of those in the Classical Course, completing the course regularly in four years. Those who are capable, and desire it, are allowed to complete the course in a shorter time.

Pupils wishing to be prepared for the professional schools have a special course marked out for them to meet their wants."

In 1878, about twenty-five years after the first published report of the course of study, the subjects offered in the curriculum were grouped under three courses,—the Regular, the College, and the English. Subjects offered at this time were Algebra, Latin, history, bookkeeping, English Literature, geometrical drawing, geometry, trigonometry, natural philosophy, chemistry, German, geology, botany, arithmetic, Greek, physics, physical geography, grammar, French, civil government, and astronomy.

In 1895 occurred the dedication of the English High school and the separation of the Somerville High school into the Somerville Latin High School and the Somerville English High School. The Latin school had nine teachers and two hundred and seventy-five pupils. The course of study was preparatory for college and included English, Greek, Latin, German, French, history, algebra, geometry, and physics. These subjects were all required subjects with the exception of physics, which was an elective, and Greek, for which German could be substituted.

The English High School in 1895 had nineteen teachers and five hundred pupils. Its course of study consisted of two groups of studies, required subjects and elective subjects, the electives to be "chosen with regard to the aptitude of the pupil and his plan for future work and study." The course of study for the English High School was based on two important principles,— "the necessity of a broad training for all pupils and the recognition of individual claims for development in the direction of aptitudes and desired ends."

The subjects offered were the following:—Algebra, English, history, drawing, elocution, ethics, music, physical train-

ing, botany, French, German, Latin, manual training, mechanical drawing, zoology, physics, physiology, bookkeeping, chemistry, commercial arithmetic, stenography, typewriting, analytic geometry, solid geometry, plane geometry, astronomy, commercial law, geology, and trigonometry.

In 1911 came the next important change in the school when the Somerville Latin and the Somerville English High Schools were united and the present Somerville High School was organized. The curriculum today comprises six distinct courses,—the College, the Scientific, the Normal, the Household Arts, the General, and the Commercial.

These courses include all the subjects taught both in the Latin and the English schools and the following additional ones:—Spanish, civics, biology, dressmaking, cooking, millinery, food study, design, textiles, hygiene, commerce and industry, penmanship, commercial history, business practice and salesmanship, household chemistry, household management, community hygiene, and applied music.

During a period of nearly seventy years the Somerville High School has increased from a school of two teachers and sixty-one pupils to one of seventy-five teachers and two thousand pupils, and its course of study has been developed to include nearly fifty different subjects.

#### SOMERVILLE TEACHERS' ASSOCIATION.

1921-1922.

President, James S. Thistle

Vice-Presidents, { Joseph S. Hawthorne  
                          } Carrie Armitage

Secretary-Treasurer, Geneva C. Tobey

Executive Committee

Charles S. Clark, ex-officio.

Bernice Newborg, High  
Elizabeth J. Mooney, E. Junior  
Arthur E. Gordon, S. Junior  
Ruth Hawkins, N. Junior  
Florence Hopkins, W. Junior  
Phillip J. Heffernan, Boys' Voc.  
Everett W. Ireland, Cont.  
Grace Allen, Prescott  
Nellie W. McPheters, Hanscom  
Kate Gifford, Bennett  
Sue Fitzpatrick, Baxter  
Mary T. McCarthy, Knapp  
Mary A. Mullin, Perry  
Katherine M. Fox, Cummings

Alice B. Frye, Pope  
Berta M. Burnett, Edgerly  
Monira C. Gregory, Glines  
Elizabeth J. O'Neil, Bingham  
Susie L. Luce, Carr  
Helen T. Smith, Morse  
Mary Winslow Durell  
Alice E. Morang, Burns  
Ethel F. Morang, Proctor  
Helen L. Galvin, Brown  
Eva M. Barrows, Highland  
Clara G. Hegan, Lowe  
Elva Cutler, Cutler  
Lillian M. Wentworth, Lincoln

The meetings held under the auspices of this association in the year 1921 were as follows:

- April 27, 1921 — Dr. Ilhyer H. Lichliter of Newton. Subject: "Modern Social Tendencies."  
 October 17, 1921 — Miss Charl O. Williams, President of National Education Association. Shubert Male Quartette.  
 December 7, 1921 — Mr. Philip Davis, Author-Lawyer. Subject: "Our Boys and What Ails Them." Mr. Harry Newcombe, Baritone Soloist.

### SOMERVILLE TEACHERS' CLUB.

#### Officers, 1921 - 1922.

President, Miss Clara G. Hegan  
 Vice-Presidents,                    } Mrs. Mary B. Soule  
   } Miss Harriet E. Tuell

Recording Secretary, Miss Irene Vincent  
 Corresponding Secretary, Miss Bernice Newborg  
 Treasurer, Miss Alice M. Saben  
 Auditor, Miss Mary H. Joyce

#### Object.

The object shall be to secure a close union among the women teachers in Somerville; to promote the spirit of mutual helpfulness; to advance professional interests; to create a deeper sense of the dignity of the profession; to unite the interests of the home and school.

#### Program.

- January 12 — Illustrated lecture by Manley Bacon Townsend,—“Special Adaptation of Birds.”  
 February 8 — A Shakespearean Recital by James Plaisted Webber, M. A.  
 March 17 — Club Play.  
 April 12 — Lecture by Prof. Dallas Lore Sharp,—“Education for Democracy.”  
 May 10 — Supper, — Speaker.  
 October 26 — Community Singing; Five-minute Talks on Current Topics by Junior High School men.  
 November 9 — Concert: Jean Bedetti, Violin cellist; Mme. Lucille Delcourt, Harpist; Mme. Florence Ferrell, Soprano.  
 November 16 — Young Peoples' Symphony concert.  
 December 14 — Christmas Party,—Eleanore Soule Hayden, Organ chimes.



## SOMERVILLE HIGH SCHOOL ATHLETIC ASSOCIATION.

## Report of Treasurer, January 1, 1922.

## Receipts.

Balance on hand, January 1, 1921 . . . . .	\$1,364 02	
Baseball games . . . . .	1,432 39	
Football games . . . . .	5,186 05	
Membership fees . . . . .	221 75	
Interest on bank deposit . . . . .	15 25	
Miscellaneous . . . . .	69 99	
	<hr/>	\$8,289 45

## Expenditures.

Athletic supplies . . . . .	\$2,399 08	
Medical attendance and supplies . . . . .	278 42	
Paid to visiting teams . . . . .	1,847 94	
Officials . . . . .	234 00	
Police . . . . .	474 00	
Assistance at games . . . . .	125 00	
Printing . . . . .	81 95	
Postage . . . . .	9 80	
Telephone . . . . .	5 15	
Carfares and transportation . . . . .	168 00	
Coaching . . . . .	590 00	
Treasurer's salary . . . . .	400 00	
Dues to Athletic Association . . . . .	19 00	
Special expenses . . . . .	335 95	
Miscellaneous expenses . . . . .	89 53	
	<hr/>	\$7,057 82
Balance on hand January 1, 1922 . . . . .		1,231 63

GEORGE E. PEARSON,

*Treasurer.*

**STATEMENT OF WORK OF SCHOOL DENTAL DISPENSARY.**  
For the School Year Ending June, 1921.

MONTH.	No. Children Treated.	No. First Appointments	No. Reappointments.	Teeth Extracted.	No. of Teeth Filled.	No. Cleansings.	No. Having Brush.	No. not Having Brush.	Amount Collected.	Incidental Expenses.	Novocain.	Treatments.	Examinations
September .....	79	63	16	37	13	5	64	15	\$5.10	\$4.41	41	9	1
October .....	146	109	37	55	47	8	129	17	13.85	8.87	67	11	5
November .....	126	105	21	71	43	6	109	17	13.35	10.74	56	9	3
December .....	128	76	52	74	46	3	109	19	13.75	13.28	80	11	2
January .....	145	102	43	62	51	6	124	21	17.00	13.48	98	3	5
February .....	136	89	47	58	54	6	121	15	13.75	4.06	81	4	4
March .....	129	95	34	69	43	5	104	25	13.77	6.92	61	8	4
April .....	151	94	57	61	60	7	138	13	14.70	5.40	91	8	8
May .....	140	99	41	67	41	4	116	24	13.40	5.50	85	6	6
June .....	152	93	59	39	72	4	144	8	14.10	5.80	102	7	10
Total .....	1332	925	407	593	470	54	1158	174	\$132.77	\$78.46	762	76	48

**COMPARATIVE FINANCIAL STATEMENT.**

	1918-1919	1919-1920	1920-1921
Receipts:—			
Cash on hand September 1 .....	\$46.68	\$50.56	\$10.75
From fees .....	115.50	132.34	132.77
From sale of tooth brushes and powder .....	—	—	—
Expenditures:—			
For supplies .....	\$111.62	\$172.15	\$143.13
Cash on hand June 30 .....	50.56	10.75	0.39
	\$162.18	\$162.18	\$182.90
			\$143.52

STATEMENT OF WORK OF SCHOOL NURSES.

For Year Ending June 30, 1921.

DATE	School or Hospital	No. of Pupils		Treatment in School	Inspections for		PUPILS ESCORTED TO CLINICS												Optician	Corrected Vision	Corrected Hearing	Operations		Contagion found in		Home Visits		Hygiene Talks		REMARKS				
		New	Old		Ped.	Uncl.	Eye		Ear		Nose and Throat		*Medi-cal		Surgical		Skin					Dental		Tonsils	Adenoids	School	Home	New	Old		School	Home		
							New	Old	New	Old	New	Old	New	Old	New	Old	New	Old				New	Old											
September.....	Schools Hospitals	73 1	958 1	29 1	91 1	28 1	52 1																											September: Children referred to Tufts Dental for treatment of teeth. Investigation made concerning condition of child. Assisted Medical Inspectors in inspections of vaccinations, teeth, etc. Children sent home with temperatures. Children referred to Dental Dispensary, family dentists, and family physicians. Dental reservations received at Boston Dispensary for five or six children weekly. Hygiene talks given in classes. Notices of medical inspections sent to parents.
October .....	Schools Hospitals	130 19	4081 19	223 19	212 19	214 19	86 19	14 19	13 19																									October: Assisted in vaccination inspections. Cases referred to School Dentist. Assisted doctors in medical inspections and notices of defects sent to parents. Wasserman tests given at hospitals. Arranged for children to go to Boston Dispensary. Three cases referred to Catholic Charities. Special eye cases reported to Office. Conference with Red Cross concerning several children.
November.....	Schools Hospitals	52 3	1600 3		34 3	44 3	50 3	2 3	5 3																									November: Health talks given. Three children admitted to Horace Mann Deaf and Dumb School through Medical Inspection. Assisted Doctors in medical inspection. Notices sent home to parents following inspection. Children referred to School Dentist.
December .....	Schools Hospitals	59 6	1064 6		26 6	71 6	9 6	1 6	4 6																									December: Assisted Doctors in medical inspection and notices of physical defects sent home. Children referred to School Dentist. Case referred to Junior Red Cross for glasses. Arranged for several children to receive hospital treatment. Arranged for children to attend Christmas party. Found work for worthy woman.
January .....	Schools Hospitals	52 5	1256 5		44 5	210 5	31 5	1 5	1 5																									January: Clothing provided for several small children. Lost child under school age turned over to Police. Information sought regarding admission of child to Canton Hospital for Crippled Children. Adenoids and tonsils operations accomplished through information being sent home by medical inspectors. Child sent to Medical Clinic at Boston Dispensary. Woman referred to Associated Charities.
February.....	Schools Hospitals	109 4	1436 4	41 4	63 4	810 4	698 4		1 4																									February: Assisted Medical Inspectors. Sought assistance of minister for needy family. Arranged with Forthian Club to pay for two adenoids and tonsils cases. Dental examinations made.
March.....	Schools Hospitals	76 5	1278 5	45 5	72 5	215 5	39 5	4 5	4 5	1 5																								March: Special examination given child for Society of the Prevention of Cruelty to Children resulting in legal procedure. Dental inspections made. Assisted doctors in medical inspections and notices sent home to parents.
April .....	Schools Hospitals	115 8	2002 8	123 8	121 8	805 8	88 8	10 8	7 8	4 8	3 8	1 8	2 8																					April: Admission to Canton Hospital for Crippled Children given to child. Aid given destitute mother. Clothing provided for two families. Conferences attended at Massachusetts General Hospital, State House, Red Cross Rooms. Dental inspections made.
May .....	Schools Hospitals	87 6	1643 6	145 6	75 6	307 6	37 6	6 6	4 6	1 6	1 6	2 6																						May: Hygiene talks on care of teeth, general cleanliness, food, etc. Assisted Doctors in Medical inspections. Conference with Boston Dispensary officials concerning four medical cases. Dental inspections made. Called medical inspector to child injured in school.
June.....	Schools Hospitals	68 8	596 8	91 8	50 8	183 8	34 8		1 8																									June: Fifty home visits made in preparation for visit of Psychiatrist. Children referred to school dentist. Two children admitted specially to Boston Dispensary. Glasses provided by Washington Street Day Nursery Association. Mumps and whooping cough found in school. Applications made for treatments at Forsyth Dispensary during summer. Child taken to Psychopathic Hospital for examination. Arranged for four adenoids and tonsils operations to be performed in July.
Total.....	Schools Hospitals	821 65	15914 65	697 65	788 65	2887 65	1124 65	38 65	40 65	2 65	5 65	16 65	8 65	8 65	3 65																			

\*Treated by family physician or dentist.



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*In Memory of*  
**PRISCILLA A. MERRITT**

a teacher in the Bingham School

Retired May 1, 1921

Died June 21, 1921

After a faithful service of thirty-six years in the public schools  
of Somerville.

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*In Memory of*  
**LILLIAN F. RICHARDSON**

a teacher in the Highland School

who died July 19, 1921

After a faithful service of seventeen years in the public schools  
of Somerville.

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## SUMMARY OF STATISTICS.

## 1.—POPULATION AND SCHOOL CENSUS.

Population, state census, 1895 .....	52,200
Population, United States census, 1900 .....	61,643
Population, state census, 1905 .....	69,272
Population, United States census, 1910 .....	77,236
Population, state census, 1915 .....	86,854
Population, United States census, 1920 .....	93,033
Children between five and sixteen years of age, April, 1921, by school census .....	18,139

## 2.—SCHOOL BUILDINGS.

Number of school buildings in June .....	30
Number of classrooms in use in June .....	381
Valuation of school property .....	\$2,276,700.00

## 3.—TEACHERS.

	*1920	*1921	Change
In high schools .....	68	75	+7
In junior high schools .....	113	116	+3
In elementary schools .....	209	211	+2
In kindergartens .....	8	13	+5
Total in elementary schools .....	217	224	+7
Vocational school for boys .....	7	9	+2
Independent Household Arts .....	2	2	0
Atypical classes .....	3	3	0
Cadet teachers .....	3	5	+2
Special .....	10	11	+1
Continuation .....	—	5	+5
Americanization .....	—	2	+2
Total .....	423	452	+29

## 4.—ATTENDANCE FOR YEAR.

	*1920	*1921	Change
Entire enrollment for the year .....	14,091	14,500	+409
Average number belonging .....	12,836	13,396	+560
Average number attending .....	11,807	12,533	+726
Per cent. of daily attendance .....	81.9	93.6	+1.7
High school graduates .....	241	316	+75
Junior High school graduates .....	705	877	+172

## 5.—COST OF SCHOOL MAINTENANCE.

	*1920	*1921	Change
Salaries of teachers .....	\$598,589 80	\$700,975 76	+102,385 96
Salaries of officers .....	14,704 26	13,883 66	—820 60
Cost of books and supplies .....	40,078 68	26,328 84	—13,749 84
Cost of light .....	10,091 82	12,162 57	+2,070 75
Cost of janitors' services .....	56,381 07	61,435 42	+5,054 35
Cost of fuel .....	37,083 21	63,016 60	+25,933 39
Rent of Armory .....	750 00	350 00	—400 00
Total cost of day and evening schools .....	757,678 84	878,152 85	+120,474 01
Per capita cost .....	57 23	66 55	+8 32
Cost of high school instruction	111,784 91	125,319 48	+13,534 57
Per capita cost .....	71 93	75 77	+3 84

\*School year.

## 6.—MISCELLANEOUS.

	*1920	*1921	Change
Paid for new school buildings .....	\$200 00	\$3,285 00	+\$3,085 00
Repairs and permanent improvements .....	44,285 91	39,573 47	—4,712 44
Total school expenditures	802,164 75	921,011 32	+118,846 57
Number of dollars spent to maintain schools out of every \$1,000 of valuation .....	9 03	10 12	+1 09
Valuation of city .....	83,910,855 60	86,718,289 60	+2,807,434 00
Number of dollars spent for all school purposes out of every \$1,000 of valuation .....	9 56	10 62	+1 06

\*School year.

#### Cost of the Schools.

The total amount spent for the maintenance of the schools of Somerville for the school year ending June 30, 1921, is \$878,152.85.

This includes the sums spent for care of school buildings, including janitors' services, fuel, light, and school telephones; the amount paid for salaries of officers, and the amount spent for school supplies; and the sum paid for salaries of teachers.

The expenditure for *care for school buildings* is wholly in charge of the City Government.

The amount paid for janitors is . . . . .	\$61,435 42
The cost of fuel is . . . . .	63,016 60
The cost of light is . . . . .	12,162 57
Rental of Armory . . . . .	350 00
<hr/>	
A total cost of . . . . .	\$136,964 59
The cost per capita . . . . .	10 22
Cost of repairs . . . . .	39,573 47

The second important expenditure is wholly under the control of the School Committee and is covered by what is known as the "*School Contingent*" appropriation. The following is the itemized account:—



CLASSIFIED STATEMENT SHOWING DISTRIBUTION OF EXPENDITURES CONTROLLED BY THE SCHOOL BOARD FOR THE YEAR 1921.

School	TEACHERS SALARIES										EXPENDITURES																															
	Regular	Substitute	Special	Kindergarten	Total	Administration	Books	Bookkeeping Blanks	Book-binding	Maps and Charts	White Paper	Manila Paper	Blank Books	Pencils, Pens, etc.	Stationery	Domestic Science Supplies	Drawing Supplies	Kindergarten Supplies	Laboratory Supplies	Equipment	Lumber	Hardware	Metal and supplies	Typewriter repairs	Graduation expenses	Tuition	Printing	Postage	Electric Power	Telephone service	Miscellaneous	Expressage	Plumbing and repairs	Baths	Auto Maintenance	Travel	Catering	Total				
High	127,863 12	\$209 50	\$2,100 05		\$130,172 67		\$3,460 32	\$223 24	\$689 60	\$27 03	\$1,285 14	\$310 35	\$472 75	\$233 48	\$247 35		\$332 43		\$1,102 61	\$1,064 39	\$406 08	\$239 71	\$4 95	\$101 30	\$223 18		\$172 00	\$24 00	\$301 00	\$71 50	\$82 22	\$48 67	\$6 75						\$25 32		\$11,155 87	
Eastern Junior High	36,587 65	159 00	839 42		37,586 07		282 05		69 29	1 96	381 96	37 73	41 80	10 56	4 95	1 92	12 01			516 53	227 41	33 27		6 57	43 14			20		43 35	40 10	9 95						12 67		1,771 87		
Southern Junior High	50,941 55	79 00	848 42		51,869 97		646 96		143 20	27 03	114 51	104 40	54 00	86 84	6 48	2 04	6 67			556 23	231 22	27 28	46 29	12 17	36 28				56 95	31	4 67		3 75					27 93		2,544 20		
Northern Junior High	40,327 35	209 00	910 35		41,446 70		355 80			1 96	238 57	28 25	48 16	51 49	6 00		18 56			338 36	321 83	39 62		16 17	69 50		31 10	50	48 57	5 48	4 54							14 50		1,672 96		
Western Junior High	59,091 60	179 00	862 25		60,132 85		644 54		75 75	10 05	331 67	96 95	44 00	59 74	8 37	2 38	62 84			297 46	327 02	70 59	102 36	10 27	117 03		6 00		84 28	8 84	6 40	7 00					6 82		2,391 36			
Prescott	9,501 00	42 00	213 93		9,756 93		108 24			9 14	23 43	12 72	1 10	19 47	3 02		1 39																1 05						195 25			
Hanscom	15,672 00	192 00	363 78	\$2,477 00	18,704 78		221 48			3 15	40 55	34 89	3 30	27 66	6 05		7 85	52 00											25 13	2 73	1 05	3 50							423 34			
Beonett	17,470 13	171 00	523 80	2,446 25	20,611 18		237 51			27 53	45 78	10 85	5 40	25 96	7 80		8 47	56 81										40 63	4 43	1 45		113 50						677 77				
Baxter	8,427 00	96 00	398 74	2,400 00	11,321 74		61 87		2 80	1 61	22 19	8 47	2 70	15 99	1 66		4 10	14 50															1 89	11 45					177 00			
Knapp	13,983 25	20 00	510 32		14,513 57		110 46		9 45	1 44	42 11	11 84	5 40	21 85	8 06		11 98	8 75									5 27			34 10	5 24	1 10						4 87		281 92		
Perry	9,903 50	292 00	426 98		9,621 48		126 87			21 94	38 58	12 43	2 52	20 56	1 96		13 05	7 10															1 86	95				2 37		250 69		
Pope	18,452 13	192 00	739 08		19,458 21		166 72		4 70	1 56	160 55	33 23	2 20	20 09	5 86		6 14	9 98											29 11	3 45	80								334 79			
Cummings	7,062 50	22 50	189 66		7,274 66		79 29			70	25 80	5 31	3 20	12 45	54		7 87	11 63		3 00													3 03	75					163 87			
Egderly	19,384 75	126 00	889 24		20,399 99		80 63		54 20	30	33 33	37 27	6 40	34 79	7 18		16 18	8 16			6 08							29 31	9 64	86									374 71			
Glines	26,402 38	162 00	762 52	2,562 50	29,889 40		141 61		44 55	9 16	71 86	40 86	6 84	32 45	4 95		12 79	68 57		2 60													2 82	10 70	4 00				1 50		492 14	
Forster	6,452 00	18 00	226 81		6,696 81		72 22			16 68	33 30	7 82	1 60	16 12	2 92		1 99	6 70															30						156 65			
Bingham	23,212 75	188 00	808 18	393 75	24,602 68		250 56		26 96		55 05	28 17	4 90	30 35	4 95		16 01	103 15		247 50								25 30	2 11	5 50	7 75							27 40		836 15		
Carr	23,538 63	62 00	974 02		24,574 65		258 72		15 05	90	55 42	18 24	8 00	24 20	6 63		14 16	20 25										27 24	2 90	85	4 00						6 70		462 26			
Morse	16,134 50	40 00	542 08	367 50	17,084 08		162 83			17 48	10 29	7 60	20 80	6 24		6 96	111 64		248 84									24 58	1 76	6 50	3 00						3 16		631 67			
Proctor	11,361 25	82 00	457 10		11,900 35		146 44		47 95	18 70	38 14	12 97	4 12	20 84	2 20		7 34	2 35															29 32	1 30	3 75				336 27			
Durell	6,620 00	12 00	175 21		6,807 21		61 31				9 60	5 61	2 40	9 30	1 27		5 78	1 46															50	1 30	40				99 41			
Burns	13,842 50	104 00	316 74		13,842 24		102 44			1 20	18 39	21 60		14 31	1 85		7 42	7 20															90	85	3 00				3 16		182 31	
Brown	16,591 25	96 00	542 02		17,229 27		300 09		42 30		47 71	13 80	3 20	28 52	4 53		16 35	20 47		4 14													60						430 79			
Highland	13,630 00	160 00	960 94		14,750 94		129 84		4 30	1 50	53 66	23 69	8 60	22 39	4 36		10 05	1 25															2 82	33 54	2 42			3 00		303 47		
Cutler	27,933 38	192 00	916 68	428 75	29,470 71		535 31		26 75	9 54	38 43	43 04	11 90	46 38	11 10		27 52	123 70		247 50													4 82	28 99	3 96	2 10	3 00			1,217 84		
Lincoln	6,474 25	88 00	173 46		6,736 71		89 79			9 40	16 34	5 91	1 90	14 21	2 46		3 34	15 93															2 11	80					166 69			
Lowe	13,543 00	76 00	269 07		13,888 07		22 18				32 04	11 72	3 20	22 36	3 42		15 73	14 85															1 21	70					127 41			
Atypical	4,654 38	52 50			4,707 38		4 10				3 19	1 41		2 74	40		10 36	29 79		75																				54 56		
Boys' Vocational	19,189 25				19,189 25						42 07	1 80	15 20	8 13	9 48		91 64			1,296 73	440 01	306 27	120 97		1 01		39 25	23 50	581 03	94 51	32 27	3 83	1 50			64 00			3,164 20			
Independent Household Arts	2,146 00				2,146 00						2 31				1 15									2 00																41 63		
Evening High	4,760 00				4,760 00		31 50	222 33					15 00	15 68	1 93		116 74			7 04					14 43		11 00	4 50											448 16			
Evening, Bell	1,298 00				1,298 00						1 51	1 01	4 30	7 21	2 11		58			40					6 22		4 00	1 85											29 29			
Evening, Highland	726 00				726 00						6 54	1 89	3 20	2 54																										18 17		
Evening Vocational	1,070 50				1,070 50																																				166 26	
Evening, Practical Arts	1,074 00				1,074 00											1 32				5 70								4 00	2 52											13 64		
Americanization	4,225 50				4,225 50		76 67				26 15	5 40	6 60	12 37													4 00	1 80												143 36		
Continuation	7,826 50				7,826 50		37 63				10 05	6 74	1 05	9 47	1 44	41 47	1 33			54 47	231 86	66 19						15 86						4 00			18 20		489 76			
Dental	1,637 00				1,637 00																																					
Administration						\$12,320 63	68 98				27 58			3 58	196 27					185 98					17 92		737 31	228 70		277 19	502 19	70			428 87	274 07	\$200 65	3,149 99				
Miscellaneous							3 13			60 24	71 57	7 60	44 44	61			117 93			16 00					108 00		\$1,817 16	\$26 35													3,180 26	
Total	\$682,165 05	\$3,321 50	\$16,939 76	\$11,075 75	\$718,502 05	\$12,320 63	\$8,980 39	\$445 57	\$1,246 74	\$261 62	\$3,750 55	\$1,014 31	\$846 98	\$1,004 49	\$635 24	\$49 63	\$992 56	\$710 92	\$1,102 61	\$6,378 91	\$2,195 43	\$793 69	\$274 48	\$272 40	\$660 79	\$1,817 16	\$1,327 01	\$329 20	\$882 03	\$1,116 02	\$827 33	\$161 41	\$54 00	\$113 50	\$428 87	\$522 94	\$200 65	\$38,747 33				

For Supplies ..... \$38,747 33  
 For Salaries ..... 12,320 63

Total spent from Contingent \$51,067 96

CLASSIFIED STATEMENT SHOWING DISTRIBUTION OF EXPENDITURES

School	TEACHERS		SALARIES																
	Regular	Substitute	Special	Kindergarten	Total	Administration	Books	Bookkeep- ing Blanks	Book- binding	Maps and Charts	White Paper	Manila Paper	Blank Books	Pencils, Pens, etc.	Station- ery	Domestic Science Supplies	Drawing Supplies	Seat Work and Kindergarten Supplies	Labor- atory Supplies
High .....	127,863 12	\$209 50	\$2,100 05	.....	\$130,172 67	.....	\$3,460 32	\$223 24	\$689 60	\$27 03	\$1,285 14	\$310 35	\$472 75	\$233 48	\$247 85	.....	\$332 43	.....	\$1,102 61
Eastern Junior High .....	36,587 65	159 00	839 42	.....	37,586 07	.....	282 05	.....	59 29	1 96	381 96	37 78	41 80	10 56	4 95	1 92	12 01	.....	.....
Southern Junior High .....	50,941 55	79 00	848 42	.....	51,868 97	.....	646 95	.....	143 20	27 03	414 51	104 40	54 00	86 84	6 48	2 04	6 67	.....	.....
Northern Junior High .....	40,327 35	209 00	910 35	.....	41,446 70	.....	355 80	.....	.....	1 96	238 57	28 25	48 16	51 49	6 00	.....	18 56	.....	.....
Western Junior High .....	59,091 60	179 00	862 25	.....	60,132 85	.....	644 54	.....	75 75	10 05	331 67	96 95	44 00	59 74	8 87	2 88	62 84	.....	.....
Prescott .....	9,501 00	42 00	213 93	.....	9,756 93	.....	108 24	.....	.....	9 14	23 43	12 72	1 10	19 47	3 02	.....	1 39	15 69	.....
Hanscom .....	15,672 00	192 00	363 78	\$2,477 00	18,704 78	.....	221 48	.....	.....	3 15	40 55	34 89	3 30	27 66	5 05	.....	7 85	52 00	.....
Bennett .....	17,470 13	171 00	523 80	2,446 25	20,611 18	.....	237 51	.....	.....	27 53	45 78	10 85	5 40	25 96	7 80	.....	8 47	56 81	.....
Baxter .....	8,427 00	96 00	398 74	2,400 00	11,321 74	.....	61 87	.....	2 80	1 61	22 19	8 47	2 70	15 99	1 66	.....	4 10	14 50	.....
Knapp .....	13,983 25	20 00	510 32	.....	14,513 57	.....	110 46	.....	9 45	1 44	42 11	11 84	5 40	21 85	8 06	.....	11 98	8 75	.....
Perry .....	8,903 50	292 00	425 98	.....	9,621 48	.....	126 87	.....	.....	21 94	38 58	12 43	2 52	20 56	1 96	.....	13 05	7 10	.....
Pope .....	18,527 13	192 00	739 08	.....	19,458 21	.....	166 72	.....	4 70	1 56	50 95	33 23	2 20	20 09	5 86	.....	6 14	9 98	.....
Cummings .....	7,062 50	22 50	189 66	.....	7,274 66	.....	79 29	.....	.....	70	25 80	5 31	3 20	12 45	84	.....	7 87	11 63	.....
Edgerly .....	19,984 75	126 00	889 24	.....	20,999 99	.....	80 63	.....	54 20	30	83 83	37 27	6 40	34 79	7 18	.....	16 18	8 15	.....
Glines .....	20,402 38	162 00	762 52	2,562 50	23,889 40	.....	141 61	.....	44 55	9 16	71 86	40 86	6 84	32 45	4 95	.....	12 79	68 57	.....
Forster .....	6,452 00	18 00	226 81	.....	6,696 81	.....	72 22	.....	.....	15 58	33 30	7 82	1 60	15 12	2 92	.....	1 99	5 70	.....
Bingham .....	23,212 75	188 00	808 18	393 75	24,602 68	.....	250 56	.....	26 95	.....	55 05	28 17	4 90	30 35	4 95	.....	16 01	103 15	.....
Carr .....	23,538 63	62 00	974 02	.....	24,574 65	.....	258 72	.....	15 05	90	55 42	18 24	8 00	24 20	6 63	.....	14 16	20 25	.....
Morse .....	16,134 50	40 00	542 08	367 50	17,084 08	.....	162 83	.....	.....	.....	17 48	10 29	7 60	20 80	6 24	.....	6 96	111 64	.....
Proctor .....	11,361 25	82 00	457 10	.....	11,900 35	.....	146 44	.....	47 95	18 70	38 14	12 97	4 12	20 84	2 20	.....	7 34	2 35	.....
Durell .....	6,620 00	12 00	175 21	.....	6,807 21	.....	61 31	.....	.....	.....	9 60	5 61	2 40	9 30	1 27	.....	5 78	1 46	.....
Burns .....	13,421 50	104 00	316 74	.....	13,842 24	.....	102 44	.....	.....	1 20	18 39	21 60	.....	14 31	1 85	.....	7 42	7 20	.....
Brown .....	16,591 25	96 00	542 02	.....	17,229 27	.....	200 09	.....	42 20	.....	47 71	13 80	3 20	28 52	4 53	.....	15 35	20 47	.....
Highland .....	13,630 00	160 00	960 94	.....	14,750 94	.....	129 84	.....	4 30	1 50	58 56	23 69	8 60	22 39	4 36	.....	10 05	1 25	.....
Cutler .....	27,933 38	192 00	916 58	428 75	29,470 71	.....	535 31	.....	26 75	9 54	88 43	43 04	11 90	46 38	11 10	.....	27 52	123 70	.....
Lincoln .....	6,474 25	88 00	173 46	.....	6,735 71	.....	89 79	.....	.....	9 40	10 84	5 91	1 90	14 21	2 46	.....	3 34	15 93	.....
Lowe .....	13,543 00	76 00	269 07	.....	13,888 07	.....	22 18	.....	.....	.....	32 04	11 72	3 20	22 36	3 42	.....	15 73	14 85	.....
Atypical .....	4,654 88	52 50	.....	.....	4,707 38	.....	4 10	.....	.....	.....	3 19	1 41	.....	2 74	40	.....	10 36	29 79	.....
Boys' Vocational .....	19,189 25	.....	.....	.....	19,189 25	.....	.....	.....	.....	.....	43 07	1 80	15 20	8 13	9 48	.....	91 64	.....	.....
Independent Household Arts .....	2,146 00	.....	.....	.....	2,146 00	.....	2 31	.....	.....	.....	.....	.....	.....	.....	1 15	.....	.....	.....	.....
Evening High .....	4,760 00	.....	.....	.....	4,760 00	.....	31 50	222 33	.....	.....	.....	.....	15 00	15 68	1 93	.....	116 74	.....	.....
Evening, Bell .....	1,298 00	.....	.....	.....	1,298 00	.....	.....	.....	.....	.....	1 51	1 01	4 30	7 21	2 11	.....	58	.....	.....
Evening, Highland .....	726 00	.....	.....	.....	726 00	.....	.....	.....	.....	.....	6 54	1 89	3 20	2 54	.....	.....	.....	.....	.....
Evening Vocational .....	1,070 50	.....	.....	.....	1,070 50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evening, Practical Arts .....	1,074 00	.....	.....	.....	1,074 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Americanization .....	4,225 50	.....	.....	.....	4,225 50	.....	76 67	.....	.....	.....	25 15	5 40	6 60	12 37	.....	.....	.....	.....	.....
Continuation .....	7,826 50	.....	.....	.....	7,826 50	.....	37 63	.....	.....	.....	10 05	6 74	1 05	9 47	1 44	41 47	1 33	.....	.....
Dental .....	1,537 00	.....	.....	.....	1,537 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Administration .....	.....	.....	.....	.....	.....	\$12,320 63	68 98	.....	.....	.....	27 58	.....	.....	3 58	196 27	.....	.....	.....	.....
Miscellaneous .....	.....	.....	.....	.....	.....	.....	3 13	.....	.....	60 24	71 57	7 60	44 44	61	.....	.....	117 93	.....	.....
<b>Total .....</b>	<b>\$682,165 05</b>	<b>\$3,321 50</b>	<b>\$16,939 75</b>	<b>\$11,075 75</b>	<b>\$713,502 05</b>	<b>\$12,320 63</b>	<b>\$8,980 39</b>	<b>\$445 57</b>	<b>\$1,246 74</b>	<b>\$261 62</b>	<b>\$3,750 55</b>	<b>\$1,014 31</b>	<b>\$846 98</b>	<b>\$1,004 49</b>	<b>\$585 24</b>	<b>\$49 63</b>	<b>\$992 56</b>	<b>\$710 92</b>	<b>\$1,102 61</b>

EXPENSES CONTROLLED BY THE SCHOOL BOARD FOR THE YEAR 1921.

	Equip- ment	Lumber	Hardware	Metal	Typewriter repairs and supplies	Grada- tion expenses	Tuition	Printing	Postage	Electric Power	Tele- phone service	Miscellaneous	Expressage	Piano tuning and repairs	Baths	Auto Maintenance	Travel	Catering	Total		
61	\$1,064 39	\$406 08	\$239 71	\$4 95	\$101 30	\$223 18	.....	\$172 00	\$24 00	\$301 00	\$71 50	\$82 22	\$48 67	\$6 75	.....	.....	\$25 32	.....	\$11,155 87	..... High	
	515 53	227 41	33 27	.....	5 57	43 14	.....	.....	20	.....	49 35	40 10	9 95	.....	.....	.....	12 67	.....	1,771 87	..... Eastern Junior High	
	556 23	231 22	27 28	45 29	12 17	86 28	.....	.....	.....	.....	56 95	31	4 67	3 75	.....	.....	27 93	.....	2,544 20	..... Southern Junior High	
	383 36	321 83	39 62	.....	15 17	69 50	.....	21 10	50	.....	48 57	5 48	4 54	.....	.....	.....	14 50	.....	1,672 96	..... Northern Junior High	
	297 46	337 02	70 59	102 36	10 27	117 03	.....	.....	6 00	.....	84 28	8 84	6 40	7 00	.....	.....	6 82	.....	2,391 36	..... Western Junior High	
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25 13	2 73	1 05	3 50	.....	.....	.....	.....	195 25	..... Prescott	
	84 05	.....	.....	.....	.....	.....	.....	.....	.....	.....	40 63	4 43	1 45	.....	113 50	.....	7 60	.....	428 34	..... Hanscom	
	25 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1 80	11 45	.....	.....	.....	2 86	.....	677 77	..... Bennett	
	.....	.....	.....	.....	.....	.....	.....	5 27	.....	.....	34 10	5 24	1 10	.....	.....	.....	4 87	.....	177 00	..... Baxter	
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1 86	95	.....	.....	.....	2 87	.....	281 92	..... Knapp	
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29 11	3 45	80	.....	.....	.....	.....	.....	250 69	..... Perry	
	3 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3 03	75	.....	.....	.....	.....	.....	334 79	..... Pope	
	6 08	.....	.....	.....	.....	.....	.....	.....	.....	.....	29 31	9 54	85	.....	.....	.....	.....	.....	153 87	..... Cummings	
	2 60	.....	.....	.....	.....	.....	.....	.....	.....	.....	36 88	2 82	10 70	4 00	.....	.....	1 50	.....	374 71	..... Edgerly	
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30	.....	.....	.....	.....	.....	492 14	..... Glines	
	247 50	.....	.....	.....	.....	.....	.....	.....	.....	.....	25 80	2 11	5 50	7 75	.....	.....	27 40	.....	156 55	..... Forster	
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27 24	2 90	85	4 00	.....	.....	5 70	.....	836 15	..... Bingham	
	248 84	.....	.....	.....	.....	.....	.....	.....	.....	.....	24 58	1 76	6 50	3 00	.....	.....	3 15	.....	462 26	..... Carr	
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29 32	1 30	85	3 75	.....	.....	.....	.....	631 67	..... Morse	
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50	1 30	40	.....	.....	.....	48	.....	336 27	..... Proctor	
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	90	85	3 00	.....	.....	.....	.....	99 41	..... Durell	
	4 14	.....	.....	.....	.....	.....	.....	.....	60	.....	38 63	3 10	1 45	.....	.....	.....	3 15	.....	182 31	..... Burns	
	.....	.....	.....	.....	.....	.....	.....	.....	2 82	.....	33 54	2 42	85	3 00	.....	.....	7 00	.....	430 79	..... Brown	
	247 50	.....	.....	.....	.....	.....	.....	.....	4 82	.....	28 99	3 96	2 10	3 00	.....	.....	1 30	.....	308 47	..... Highland	
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2 11	80	.....	.....	.....	3 80	.....	1,217 84	..... Cutler	
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1 21	70	.....	.....	.....	.....	.....	156 69	..... Lincoln	
	75	.....	1 82	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	127 41	..... Lowe	
	1,296 73	440 01	306 27	120 97	.....	1 01	.....	39 25	23 50	581 03	94 51	32 27	3 83	1 50	.....	.....	54 00	.....	54 56	..... Atypical	
	.....	.....	.....	.....	2 00	.....	.....	.....	6 26	.....	29 91	.....	.....	.....	.....	.....	.....	.....	41 63	..... Boys' Vocational	
	7 04	.....	.....	.....	.....	14 43	.....	11 00	4 50	.....	.....	2 70	5 30	.....	.....	.....	.....	.....	448 15	..... Independent Household Arts	
	40	.....	.....	.....	.....	6 22	.....	4 00	1 85	.....	.....	10	.....	.....	.....	.....	.....	.....	29 29	..... Evening High	
	.....	.....	.....	.....	.....	.....	.....	4 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18 17	..... Evening, Bell	
	127 16	.....	18 84	91	.....	.....	.....	4 00	.....	.....	.....	10 45	.....	.....	.....	.....	4 90	.....	166 26	..... Evening, Highland	
	5 70	.....	.....	.....	.....	.....	.....	4 00	2 52	.....	.....	.....	.....	.....	.....	.....	.....	.....	13 54	..... Evening, Vocational	
	.....	.....	.....	.....	.....	.....	.....	4 00	1 80	.....	.....	.....	2 97	.....	.....	.....	8 40	.....	143 36	..... Evening, Practical Arts	
	54 47	231 86	56 19	.....	.....	.....	.....	.....	15 86	.....	.....	.....	4 00	.....	.....	.....	18 20	.....	489 76	..... Americanization	
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..... Continuation
	185 98	.....	.....	.....	17 92	.....	.....	737 31	228 70	.....	277 19	502 19	70	.....	.....	428 87	274 07	\$200 65	\$,149 99	..... Dental	
	15 00	.....	.....	.....	108 00	.....	\$1,817 16	826 35	.....	.....	.....	84 70	19 08	.....	.....	.....	4 45	.....	3,180 26	..... Administration	
61	\$5,378 91	\$2,195 43	\$793 59	\$274 48	\$272 40	\$560 79	\$1,817 16	\$1,827 01	\$329 20	\$882 03	\$1,116 02	\$827 33	\$161 41	\$54 00	\$113 50	\$428 87	\$522 94	\$200 65	\$38,747 33	..... Miscellaneous	

For Supplies ..... \$38,747 33  
 For Salaries ..... 12,320 63

Total spent from Contingent \$51,067 96



Expenditures.	Total.	DAY SCHOOLS.		EVENING SCHOOLS.		CONTINUATION SCHOOLS AND AMERICANIZATION WORK
		High and Vocational	Elementary	High and Vocational	Elementary	
Officers' Salaries.....	\$13,883.66					
Office Expenses	3,584.60					
Textbooks.....	1,658.38	\$853.71	\$724.50			\$80.17
Stationery and Supplies and Other Expenses of Instruction.....	16,970.56	11,078.29	5,518.78	\$19.37	\$27.54	326.58
Miscellaneous (Tuition, etc.)	4,115.30	1,070.13	2,861.46	45.32	35.13	103.26
<b>Total .....</b>	<b>\$40,212.50</b>	<b>\$13,002.13</b>	<b>\$9,104.74</b>	<b>\$64.69</b>	<b>\$62.67</b>	<b>\$510.01</b>

The third, and by far the largest, element of the cost of schools is the sum spent for the *salaries of teachers*. This expenditure is under the control of the School Committee.

The following statement shows the distribution of the sums paid for salaries:—

Expenditures.	Total.	DAY SCHOOLS.		EVENING SCHOOLS.		CONTINUATION SCHOOLS AND AMERICANIZATION WORK
		High and Vocational	Elementary	High and Vocational	Elementary	
Supervisors .....	\$9,550.00	\$1,553.50	\$7,996.50			
Principals.....	52,837.00	13,088.00	35,148.00	\$891.00	\$216.07	\$3,493.93
Teachers .....	638,588.76	192,724.47	431,023.27	5,753.00	756.18	8,331.82
<b>Total .....</b>	<b>\$700,975.76</b>	<b>\$207,365.99</b>	<b>\$474,167.77</b>	<b>\$6,644.00</b>	<b>\$972.25</b>	<b>\$11,825.75</b>

The *total outlay* for all school purposes includes all of the preceding and the sums spent for schoolhouse repairs and new buildings.

The *total outlay* for the school year ending June 30, 1921, is as follows:—

Care .....	\$136,964 59
Contingent .....	40,212 50
Salaries .....	700,975 76
<b>Total for school maintenance .....</b>	<b>\$878,152 85</b>
<b>Paid for repairs .....</b>	<b>39,573 47</b>
<b>Paid for new buildings .....</b>	<b>3,285 00</b>
<b>Total for all school purposes .....</b>	<b>\$921,011 32</b>

Each dollar of the sum spent for the support of schools has been divided in the following proportion:—

	1916	1917	1918	1919	1920	1921
Janitors' salaries ....	\$0.077	\$0.076	\$0.079	\$0.097	\$0.074	\$0.070
Heat and light .....	0.059	0.066	0.081	0.057	0.063	0.085
Administration .....	0.017	0.018	0.017	0.017	0.020	0.015
School supplies .....	0.058	0.062	0.064	0.067	0.053	0.030
Teachers' salaries ....	0.789	0.778	0.759	0.762	0.790	0.800
Total .....	\$1.000	\$1.000	\$1.000	\$1.000	\$1.000	\$1.000

*Per Capita Cost.* The proper method of comparison of the cost of schools year by year is to consider the sum spent for each pupil in the average membership. In this computation we exclude the cost of evening schools, and the vocational schools. The following shows:—

THE PER CAPITA COST OF DAY SCHOOLS FOR 1920 AND 1921.

	High School.			Junior High Schools.			Elementary Schools.			All Day Schools.		
	1920.	1921.	Change	1920.	1921.	Change	1920.	1921.	Change	1920.	1921.	Change
Instruction.....	\$73.04	\$77.20	+\$4.16	\$57.09	\$61.47	+\$4.38	\$36.99	\$41.70	+\$4.71	\$45.90	\$50.73	+\$4.83
Supplies.....	8.51	4.86	-3.65	3.18	2.09	-1.09	1.76	.84	-0.92	2.90	1.63	-1.27
Care.....	12.72	13.96	+1.24	7.18	8.97	+1.79	6.88	9.08	+2.20	7.66	9.62	+1.96
Total.....	\$94.27	\$96.02	+\$1.75	\$67.45	\$72.53	+\$5.08	\$45.63	\$51.62	+\$5.99	\$56.46	\$61.98	+\$5.52

Including the cost of maintenance of evening schools, the per capita cost is as follows:—

	1917	1918	1919	1920	1921
Cost of Instruction .....	\$26 72	\$29 58	\$31 82	\$44 34	\$50 07
Cost of Supplies .....	2 05	2 40	2 45	2 80	1 60
Cost of Care .....	4 61	6 09	6 43	7 45	9 62
Total .....	<u>\$33 38</u>	<u>\$38 07</u>	<u>\$40 70</u>	<u>\$54 59</u>	<u>\$61 29</u>

An examination of these tables shows that we have paid \$4.16 more for the instruction of each pupil in the High School than in 1920, and \$3.65 less per pupil for supplies.

The elementary schools have cost \$4.71 more per pupil for instruction, and ninety-two cents less for supplies.

The amount spent for the school year 1921 was \$10.12, or \$1.09 more than was spent in 1920. The amount yielded for each child in the average membership of the schools for 1921, not including the vocational schools, was \$61.29.

#### Teachers' Salaries.

The salaries paid to teachers in January, 1922, are as follows:—

1 man .....	\$4,100	8 women .....	\$1,700
1 man .....	3,300	25 women .....	1,650
4 men .....	3,100	2 men, 20 women .....	1,600
7 men, 1 woman .....	3,000	1 woman .....	1,575
1 man .....	2,900	1 man*, 3 women .....	1,550
1 man .....	2,800	1 man, 206 women .....	1,500
3 men, 1 woman .....	2,700	18 women .....	1,450
3 men .....	2,500	25 women .....	1,400
1 man .....	2,400	21 women .....	1,350
6 men .....	2,300	11 women .....	1,300
4 men, 1 woman .....	2,200	1 woman .....	1,250
5 men, 2 women .....	2,100	10 women .....	1,200
4 men .....	2,000	9 women .....	1,100
10 men, 6 women .....	1,900	1 man* .....	1,050
1 man .....	1,800	1 man*, 5 women .....	1,000
6 women .....	1,750		

\*Part time.

## SIGHT AND HEARING.

The following give the results of the eye and ear tests:—

<b>Eyes.</b>			
	1921	1920	Change
Tested .....	12,833	12,242	591+
Defective .....	1,669	1,658	11+
Per cent. defective .....	13%	13.5%	0.5%—
Notices sent to parents .....	1,089	1,070	19+
Professionally treated .....	173	225	52—

<b>Ears.</b>			
	1921	1920	Change
Tested .....	13,711	13,346	365+
Defective .....	206	195	11+
Per cent. defective .....	1.5%	1.5%	—
Notices sent to parents .....	139	139	—
Professionally treated .....	26	36	10—



Table 1. — Schoolhouses, January, 1922.

NAME	† No. of Classrooms	No. of Seatings	Size of Lot, including Space Occupied by Building	Material	How Heated	How Ventilated	Valuation, including Furniture	When Built	Enlargements
High } West.....	74	1,733	* .....	Brick	Steam	Fan	\$426,000	1895	8 rooms added 1906
School } East.....				Brick	Steam	Fan		1871	30 rooms added 1913
Prescott } .....	#13	518	.....	Brick	Steam	Fan		1867	
Southworth } .....	11	356	49,310	Brick	Steam	Fan	139,200	1916	
Knapp } .....	†13	464	24,517	Brick	Steam	Gravity	58,500	1889	4 rooms added 1894
Pope } .....	12	578	27,236	Brick	Steam	Gravity	88,600	1891	
Bell } .....	24	861	29,860	Brick	Steam	Fan	147,000	1874	13 rooms added 1918
Elderly } .....	12	571	24,000	Brick	Steam	Gravity	48,000	1871	{ 4 rooms added 1882 4 rooms added 1892
Glines } .....	14	679	28,800	Brick	Steam	Gravity	101,400	1891	5 rooms added 1896
Forster } .....	13	576	30,632	Brick	Steam	Gravity	112,000	1866	
Folsom } .....	13	293	.....	Brick	Steam	Gravity		1899	
Bingham } .....	16	771	35,586	Brick	Steam	Gravity	82,000	1886	{ 4 rooms added 1894 8 rooms added 1904
Carr } .....	15	705	20,450	Brick	Steam	Gravity	63,100	1898	
Morse } .....	12	503	29,000	Brick	Furnace	Furnace	59,000	1869	6 rooms added 1890
Highland } .....	†12	355	23,260	Brick	Steam	Gravity	71,600	1880	4 rooms added 1891
Carried forward.....	254	8,963	.....	.....	.....	.....	\$1,396,400	.....	.....

\*Buildings are located on Central Hill Park, which contains 13 1-10 acres.

†Includes home rooms, laboratories, shops, assembly rooms, dental dispensary, etc.

#2 rooms converted into a hall.

‡3 rooms not in use.

Table 1. — (Concluded). — Schoolhouses, January, 1922.

NAME	No. of Classrooms	No. of Sitings	Size of Lot, including Space Occupied by Building	Material	How Heated	How Ventilated	Valuation, including Furniture	When Built	Enlargements
Brought forward.....	254	8,963	.....	.....	.....	.....	\$1,396,400	.....	
Hodgkins .....	14	568	35,034	Brick	Steam	Gravity	103,700	1896	
Western .....	15	475	.....	Brick	Steam	Fan	84,000	1917	
Outler .....	20	911	53,729	Brick	Steam	Fan	108,700	1912	6 rooms added 1915
Bennett .....	12	508	21,964	Brick	Steam	Gravity	58,000	1902	
Hanscom .....	10	482	16,767	Brick	Steam	Fan	70,500	1897	4 rooms added 1907
Brown .....	10	487	26,733	Brick	Steam	Gravity	80,600	1901	4 rooms added 1907
Proctor .....	79	343	*	Brick	Steam	Gravity	44,000	1905	
Burns .....	8	387	16,080	Brick	Steam	Gravity	47,000	1886	4 rooms added 1899
Lowe .....	8	386	21,650	Brick	Steam	Gravity	53,000	1903	
Baxter .....	6	290	11,000	Brick	Steam	Gravity	40,700	1901	
Perry .....	6	291	46,080	Brick	Steam	Gravity	53,500	1899	
‡Girls' Vocational .....			8,850	Wood	Furnace	Furnace	5,000	1911	
Boys' Vocational { Davis 4 Machine Shop 2 Automobile Shop 2	8	.....	30,155	Wood	Furnace	Furnace	71,000	1884	Machine shop added 1917 Automobile shop added 1918
Cummings .....	4	196	11,300	Wood	Furnace	Furnace	16,900	1884	
Durell .....	4	184	13,883	Brick	Steam	Gravity	22,900	1894	
Lincoln .....	4	168	17,662	Wood	Steam	Gravity	20,800	1885	
Total.....	392	14,639	.....	.....	.....	.....	\$2,276,700	.....	

\*State property. †Land included in City Ledger property. ‡Not in use. #One room used for Dental Dispensary.

Table 2. — Cost of Maintaining Schools.

FOR SCHOOL YEAR 1920-21.

SCHOOLS.	FROM SCHOOL APPROPRIATION.		SPENT BY CITY GOVERNMENT.	Total
	Instruction and Supervision.	Supplies.	Care.	
High .....	\$126,993.28	\$8,004.96	\$23,072.15	\$158,070.39
Eastern Jr. ....	36,156.72	1,090.59	6,031.74	43,279.05
Southern Jr. ....	50,463.91	1,706.23	7,336.17	59,506.31
Northern Jr. ....	42,062.48	1,427.18	6,417.64	49,907.30
Western Jr. ....	61,056.53	2,311.08	7,141.24	70,508.85
Prescott .....	9,327.44	192.98	2,112.65	11,633.07
Hanscom .....	19,422.75	401.93	3,582.32	23,407.00
Bennett .....	21,249.57	564.89	3,663.57	25,478.03
Baxter .....	11,907.77	150.44	2,628.53	14,686.74
Knapp .....	13,867.21	318.82	3,979.54	18,165.57
Perry .....	10,663.34	190.82	2,628.54	13,482.70
Pope .....	20,283.49	402.20	4,072.19	24,757.88
Cummings .....	7,513.00	129.06	2,112.65	9,754.71
Edgerly .....	21,746.63	452.04	4,072.20	26,270.87
Glines .....	25,138.51	540.20	4,249.84	29,928.55
Forster .....	6,949.35	128.84	2,112.66	9,190.85
Bingham .....	25,110.55	463.59	4,862.10	30,436.24
Carr .....	25,158.34	457.16	5,413.90	31,029.40
Morse .....	17,201.86	331.34	3,891.51	21,424.71
Proctor .....	12,245.04	250.25	3,324.36	15,819.65
Durell .....	6,986.93	95.48	2,112.66	9,195.07
Burns .....	14,217.15	213.31	3,118.43	17,548.89
Brown .....	17,623.41	335.27	3,582.32	21,541.00
Highland .....	15,863.50	344.35	3,435.33	19,643.18
Cutler .....	28,952.31	822.47	6,607.86	36,382.64
Lincoln .....	6,912.45	113.59	2,112.65	9,138.69
Lowe .....	14,275.31	220.98	3,118.41	17,614.70
Atypical .....	4,588.68	57.35	955.73	5,601.76
Boys' Vocational .....	18,585.70	3,854.08	2,895.54	25,335.32
Independent House- hold Arts .....	2,641.76	52.52	731.24	3,425.52
Evening .....	8,054.97	146.88	3,291.40	11,493.25
Continuation .....	6,973.05	360.91	1,202.05	8,536.01
Americanization .....	4,666.43	197.05	1,095.47	5,958.95
Total .....	\$714,859.42	\$26,328.84	\$136,964.59	\$878,152.85

Table 3. — Per Capita Cost of Maintaining Schools.

FOR SCHOOL YEAR 1920-21.

SCHOOLS.	Instruction and Supervision.	Supplies.	Care.	Total.
High .....	\$77.20	\$4.86	\$13.96	\$96.02
Eastern Jr.....	65.03	1.96	10.85	77.84
Southern Jr. ....	55.82	1.89	8.12	65.83
Northern Jr. ....	64.41	2.19	9.83	76.43
Western Jr. ....	60.63	2.30	7.09	70.02
Prescott .....	37.01	.77	8.38	46.16
Hanscom .....	39.40	.82	7.27	47.49
Bennett .....	45.99	1.22	7.93	55.14
Baxter .....	60.45	.76	13.34	74.55
Knapp.....	42.54	.98	12.21	55.73
Perry.....	42.65	.76	10.51	53.92
Pope .....	37.08	.74	7.44	45.26
Cummings .....	41.74	.72	11.73	54.19
Edgerly.....	39.11	.81	7.32	47.24
Glines .....	38.85	.83	6.56	46.24
Forster.. ....	39.48	.73	12.00	52.21
Bingham .....	41.44	.77	8.02	50.23
Carr.....	38.82	.71	8.35	47.88
Morse .....	42.37	.82	9.58	52.77
Proctor .....	39.63	.81	10.76	51.20
Durell .....	47.53	.65	14.37	62.55
Burns .....	43.21	.65	9.48	53.34
Brown .....	47.12	.90	9.58	57.60
Highland .....	47.93	1.04	10.38	59.35
Cutler .....	39.07	1.11	8.92	49.10
Lincoln .....	48.00	.79	14.67	63.46
Lowe .....	42.61	.66	9.31	52.58
Atypical .....	101.97	1.27	21.24	124.48
Evening .....	17.17	.31	7.02	24.50
Continuation.....	24.13	1.25	4.16	29.54
Americanization.....	32.63	1.38	7.66	41.67
Elementary .....	41.70	.84	9.08	51.62
All schools (without state-aided schools)	50.07	1.60	9.62	61.29
Boys' Vocational.....	168.96	35.04	26.32	230.32
Ind. Household Arts.....	125.80	2.50	34.82	163.12

Table 4.—Annual Cost of Maintaining the Schools.

FOR A SERIES OF YEARS.

Amounts are given to the nearest dollar and include what has been paid for maintaining day and evening schools of all grades.

YEAR.	Average Membership.	FROM SCHOOL APPROPRIATION.		SUM SPENT UNDER DIRECTION OF CITY GOVERNMENT.				Total.
		Instruction and Supervision.	School Supplies.	Light.	Heating.	Janitors.	School Tele-phones.	
1912	11,710	\$306,709	\$30,319	\$5,995	\$15,676	\$30,219	\$512	\$389,431
1913	11,856	320,744	25,877	5,842	16,055	32,939	542	402,092†
1914	12,320	338,587	26,843	6,448	18,952	33,711	624	425,165
1915	12,903	357,581	29,389	5,755	18,366	32,674	213	443,978
1916	13,191	363,948	26,098	6,233	20,197	34,667	.....	451,143
1917	12,770	376,138	29,221	5,429	25,487	35,718	.....	471,993
1918	12,656	410,589	33,587	6,966	35,839	42,063	18	529,062
1919	12,733	437,730	33,225	8,821	22,960	55,710	.....	*559,328
1920	12,836	613,294	40,079	10,092	37,083	56,381	.....	*757,679
1921	13,396	714,859	26,329	12,163	63,017	61,435	.....	*878,153

† \$92.50 included for rental of church for schoolhouse purposes in Ward 7.

\* Includes \$882.50, rent of Armory, in 1919.

\* " 750.00, " , in 1920.

\* " 350.00, " , in 1921.

Table 5.—Annual Cost Per Capita of Maintaining Schools.

FOR A SERIES OF YEARS.

[Based on the average membership.]

YEAR.	Instruction and Supervision.	School Supply Expenses.	Janitors, Heat and Light.	Total.	Assessors' Valuation of City.	Ratio of Cost of School Maintenance to Valuation.
1912	\$23 61	\$2 12	\$3 99	\$29 72	\$69,632,540	\$ .00556
1913	24 54	1 91	4 18	30 63	71,848,811	.00559
1914	24 55	1 89	4 27	30 71	74,887,800	.00568
1915	24 90	2 03	3 92	30 85	77,153,500	.00575
1916	26 25	1 88	4 41	32 54	79,304,329	.00569
1917	26 72	2 05	4 61	33 38	78,921,472	.00595
1918	29 58	2 40	6 09	38 07	84,639,280	.00625
1919	31 82	2 45	6 43	40 70	87,353,424	.00643
1920	44 34	2 80	7 45	54 59	83,910,855	.00903
1921	50 07	1 60	9 62	61 29	86,718,290	.01012

**Table 6. — Amount Spent Annually for all School Purposes.**

FOR A SERIES OF YEARS.

YEAR.	For New Schoolhouses.	For Repairs and Permanent Improvements.	For Maintaining Schools.	Amount Spent for all School Purposes
1912	\$35,527	\$14,163	\$389,431	\$439,121
1913	34,866	19,341	402,092	456,299
1914	120,913	19,700	425,165	565,778
1915	9,745	28,212	443,978	481,935
1916	81,184	21,634	451,143	553,961
1917	94,420	27,283	471,993	593,696
1918	100,177	30,126	529,062	659,365
1919	104,067	20,492	559,328	683,887
1920	200	44,286	757,679	802,165
1921	3,285	39,573	878,153	921,011

For years prior to 1912 see School Report of 1917.

**TABLE 7.—POPULATION AND SCHOOL CENSUS.**

For School Year 1920-1921.

1842 . . . . .	1,013	1900 . . . . .	61,643	1911 . . . . .	78,000
1850 . . . . .	3,540	1901 . . . . .	63,000	1912 . . . . .	80,000
1860 . . . . .	8,025	1902' . . . . .	65,273	1913 . . . . .	81,000
1865 . . . . .	9,366	1903 . . . . .	67,500	1914 . . . . .	85,000
1870 . . . . .	14,693	1905 . . . . .	69,272	1915 . . . . .	86,854
1875 . . . . .	21,594	1906 . . . . .	70,875	1916 . . . . .	88,000
1880 . . . . .	24,985	1907 . . . . .	72,000	1917 . . . . .	90,000
1885 . . . . .	29,992	1908 . . . . .	75,500	1918 . . . . .	91,000
1890 . . . . .	40,117	1909 . . . . .	75,500	1919 . . . . .	91,500
1895 . . . . .	52,200	1910 . . . . .	77,236	1920 . . . . .	93,033
				1921 . . . . .	94,500

**School Census.**

Number of children between 5 and 15 years of age, inclusive,  
 April 1, 1921 . . . . . 18,139

**School Registration.**

Number of children between 5 and 15 years of age, inclusive,  
 April 1, 1921:—  
 In public schools . . . . . 12,079  
 In private schools . . . . . 2,847  


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 Total . . . . . 14,926

Number of compulsory school age, 7 to 13, inclusive:—  
 In public schools, males . . . . . 4,384  
 females . . . . . 4,502  


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 8,886

In private schools, males . . . . . 1,092  
 females . . . . . 4,502  


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 8,886

Total . . . . . 11,167

Table 8.—Attendance of the Public Schools for the School Year 1920-1921.

Rooms used for Classrooms in June	SCHOOLS.	Annual Enrollment.	Average Membership.	Average Attendance.	Per cent. of Attendance.	No. Attending in October.	No. Attending in June.
72	High .....	1762	1654	1535	92.8	1697	1611
19	Eastern Jr. High .....	583	556	516	92.9	561	544
26	Southern Jr. High .....	961	903	839	92.8	917	875
22	Northern Jr. High .....	704	653	611	93.6	668	640
31	Western Jr. High .....	1072	1019	972	95.3	1035	998
5	Prescott .....	288	252	231	91.6	253	263
10	Hanscom .....	538	493	458	92.9	499	477
10	Bennett .....	509	462	431	93.3	465	456
6	Baxter .....	223	197	184	93.4	198	203
9	Knapp .....	349	326	307	94.1	314	327
6	Perry .....	271	250	233	93.6	250	249
12	Pope .....	602	547	510	93.4	552	540
4	Cummings .....	181	180	167	93.3	177	181
12	Edgerly .....	610	556	519	93.4	566	533
14	Glines .....	713	647	608	93.9	669	637
4	Forster .....	204	176	163	92.8	182	173
15	Bingham .....	664	606	565	93.4	595	621
15	Carr .....	693	648	601	92.7	653	626
10	Morse .....	430	406	385	94.8	420	405
7	Proctor .....	349	309	291	94.3	324	305
4	Durell .....	163	147	136	92.7	156	143
8	Burns .....	355	329	307	93.4	337	318
10	Brown .....	409	374	352	93.8	381	357
9	Highland .....	352	331	316	95.4	337	327
18	Cutler .....	779	741	701	94.4	753	712
4	Lincoln .....	164	144	135	93.9	153	146
8	Lowe .....	371	335	314	93.6	337	342
3	Atypical .....	50	45	41	91.1	46	46
	Boys' Vocational .....	151	110	105	97.3	112	108
2	Continuation .....	272	289	227	78.7	.....	.....
375	Total .....	14,772	13,685	12,760	93.2	13,607	13,163
382	Total for 1919-20.....	14,091	12,836	11,807	91.9	13,169	12,510

Table 9. — Statistics of High School for School Year September 8, 1920  
to June 29, 1921.

Number of teachers, including head master . . . . .	65
Number of days school kept . . . . .	187
Number enrolled . . . . .	1762
Average number belonging . . . . .	1654
Average daily attendance . . . . .	1535.4
Tardinesses . . . . .	5168
Dismissals . . . . .	587
In Class 1923, September . . . . .	649
June . . . . .	596
Per cent. of loss . . . . .	8.1
In Class 1922, September . . . . .	746
June . . . . .	696
Per cent. of loss . . . . .	6.7
In Class 1921, September . . . . .	319
June . . . . .	316
Per cent. of loss . . . . .	.9
Special students, September . . . . .	3
June . . . . .	3
Per cent. of loss . . . . .	0.0
Total, September . . . . .	1717
June . . . . .	1611
Per cent. of loss . . . . .	6.2
Number of graduates, male . . . . .	123
Number of graduates, female . . . . .	193
Total . . . . .	316
Average age, male graduates . . . . .	18 yrs. 2 mos.
Average age, female graduates . . . . .	18 yrs. 4 mos.
Number entering college . . . . .	43
Number of graduates entering scientific schools . . . . .	29
Number of graduates entering normal schools . . . . .	24
Cost of instruction . . . . .	\$125,319 48
Cost of supplies . . . . .	7,321 99
Total cost . . . . .	<u>\$132,641 47</u>
Per capita cost of instruction . . . . .	\$75 77
Per capita cost of supplies . . . . .	4 43
Total cost per capita . . . . .	\$80 20



Table 10. — Pupils by Grades, June, 1921.

SCHOOL.	GRADE.	TEACHERS.			PUPILS.			Never in First Grade Before.
		Men.	Women.		Boys.	Girls.	Total.	
			Regular.	Assistants.				
High	Special .....					3	3	1,411
	Twelfth .....				123	193	316	
	Eleventh .....				273	423	696	
	Tenth .....				296	300	596	
	Total .....	19	46		692	919	1,611	
Junior High	Ninth .....				425	495	920	
	Eighth .....				446	515	961	
	Seventh .....				538	638	1,176	
	Total .....	16	97		1,409	1,648	3,057	
Elementary	Sixth .....	7	33		622	613	1,235	
	Fifth .....		33		638	666	1,304	
	Fourth .....		33		687	650	1,337	
	Third .....		31		656	632	1,288	
	Second .....		33		673	665	1,338	
	First .....		37	2	768	851	1,619	
	Total .....	7	200	2	4,044	4,077	8,121	
Kindergarten			4	4	103	85	188	
	Special .....	4	9		19	13	32	
	Cadets .....		3					
	Atypical .....		3		26	20	46	
	Boys' Vocational .....	9			108		108	
	Independent Household Arts .....		1					
	Continuation .....	3	2		72	50	122	
Grand Total .....	58	365	6	6,473	6,812	13,285		

Table 11. — Pupils in High, Junior High, Elementary and Vocational Schools, 1920-1921.

	High School.	Junior High Schools.	Elementary Schools.	Kinder-gartens.	Vocational School for Boys.	Atypical Schools.	Total.
Annual enrollment .....	1762	3320	9012	205	151	50	14,500
Average membership .....	1654	3131	8270	186	110	45	13,396
Average attendance .....	1535	2938	7740	174	105	41	12,533
Per cent. of attendance.....	92.8	94.0	93.6	93.5	97.3	91.1	93.6
Number cases of tardiness .....	5168	1917	4224	.....	28	.....	11,337
Number cases of dismissal .....	587	995	2178	.....	14	.....	3,774
Membership, October, 1920.....	1697	3181	8383	188	112	46	13,607
Membership, June, 1921.....	1611	3057	8153	188	108	46	13,163
No. cases corp. punishment.....	.....	5	81	.....	.....	.....	86

Table 12. — Number of Pupils Admitted to Grade 1 In September.

SCHOOL.	1917	1918	1919	1920
Prescott .....	49	46	32	66
Hanscom .....	100	114	153	126
Bennett.....	84	67	104	96
Baxter.....	32	31	34	34
Knapp.....	42	30	53	47
Perry .....	43	42	38	40
Pope.....	51	55	50	71
Cummings .....	71	35	47	47
Edgerly.....	45	43	43	54
Glines .....	91	86	92	110
Forster .....	31	21	25	31
Bingham.....	102	65	86	95
Carr.....	92	79	75	81
Morse .....	67	82	69	78
Proctor .....	46	48	43	36
Durell.....	45	28	34	30
Burns .....	107	65	83	77
Brown.....	77	63	76	72
Hodgkins.....	50	.....	.....	.....
Cutler .....	96	136	86	116
Lincoln.....	45	60	42	32
Lowe .....	90	82	74	72
Total .....	1,456	1,278	1,339	1,411

**Table 13. — Eighth Grade Promotions — Junior High Schools — June, 1921.**

Promotion from the eighth grade to the ninth grade in the Junior High School corresponds to the promotion from the last grade of a grammar school to the High School.

SCHOOL	Number in Class in June	No. Promoted to Grade 9	No. Entering Grade 9 in Sept., 1921
Eastern Junior High School.....	186	181	180
Southern Junior High School.....	270	254	244
Northern Junior High School .....	214	200	201
Western Junior High School .....	305	297	287
Total .....	975	932	912

**Table 13A. — Ninth Grade Promotions — Junior High Schools — June, 1921.**

Promotion from the ninth grade to the tenth is the promotion from the Junior High School to the Senior High School. The tenth grade corresponds to the second year of a four year High School.

SCHOOL	Number in Class in June	Number Given Diplomas	Number Certified to High School Grade 10	No. Entering High School in Sept., 1921
Eastern Junior High.....	137	119	117	99
Southern " .....	258	247	247	199
Northern " .....	196	183	177	159
Western " .....	333	319	319	310
Total .....	924	868	860	767

Table 14. — Comparative Statistics of the Attendance Department for the School Year 1920 — 1921.

	1920	1921	Change
Number of visits to the schools . . . . .	651	442	—209
Number of visits to the homes . . . . .	1,345	1,347	+2
Number of cases investigated . . . . .	1,473	1,459	—14
Number of cases found to be truancy or absenteeism . . . . .	482	362	—120
Number of different pupils who were truants or habitual absentees . . . . .	379	279	—100
Number who were truants for the first time . . . . .	302	227	—75
Number who were truants for the second time . . . . .	55	35	—20
Number who were truants for three or more times . . . . .	20	17	—3
Number of girls who were truants or absentees . . . . .	63	72	+9
Number of cases of parental neglect of children found and reported to charitable institutions . . . . .	3	1	—2
Number of cases of removal of children from the custody of parents by order of the court . . . . .	2	1	—1
Number of visits to mercantile or manufacturing establishments . . . . .	36	43	+7
Number of minors found to be working without employment certificates . . . . .	37	59	+22
Number of employment certificates issued to boys . . . . .	736	200	—536
Number of employment certificates reissued to boys . . . . .	673	92	—581
Number of employment certificates issued to girls . . . . .	553	162	—391
Number of employment certificates reissued to girls . . . . .	507	48	—459
Number of educational literate certificates issued to minors over 16 years of age (first issue) . . . . .	1,297	883	—414
Number of newspaper licenses issued to boys 12 to 16 years of age . . . . .	74	111	+37
Number of transfer cards investigated . . . . .	1,200	1,954	+754
Number of truants in the County Training school at the close of the year . . . . .	18	10	—8
Amount paid for board of truants . . . . .	1,071.42	1,004.15	—67.27

Table 14. — (Concluded). — Comparative Statistics of the Attendance Department for the School Year 1920-1921.

Disposition of truancy and habitual absentee cases:—		
Warned and returned to school . . . . .		173
Transferred to other schools . . . . .		7
Obtained certificates (14 to 16 years) . . . . .		34
Left school (over 16 years) . . . . .		9
Removed from city . . . . .		30
Brought before court and returned to school . . . . .		14
Brought before court and sent to Training School . . . . .		4
Parents brought before court for keeping children out of school (convicted) . . . . .		1
Sent to Lyman School . . . . .		5
Given in charge of Department of Public Welfare . . . . .		1
Sent to House of Good Shepherd . . . . .		1
		279

Table 14-A. — Truancies and Habitual Absenteeism by Ages and Grades.

GRADES.	BY AGES.											Total.
	6	7	8	9	10	11	12	13	14	15	16 or Over	
I.....	2	1	1	.....	.....	.....	.....	.....	.....	.....	.....	4
II.....	.....	1	4	4	1	1	.....	.....	.....	.....	.....	11
III.....	.....	.....	3	4	7	.....	.....	1	.....	.....	.....	15
IV.....	.....	.....	.....	3	1	4	6	1	3	.....	.....	18
V.....	.....	.....	.....	.....	6	14	7	4	5	4	.....	40
VI.....	.....	.....	.....	.....	.....	4	6	17	9	10	.....	46
VII.....	.....	.....	.....	.....	.....	.....	4	27	15	6	.....	52
VIII.....	.....	.....	.....	.....	.....	.....	.....	4	13	10	2	29
IX.....	.....	.....	.....	.....	.....	.....	.....	1	12	13	2	28
X.....	.....	.....	.....	.....	.....	.....	.....	.....	1	4	11	16
XI.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	13	15
XII.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Boys' Voc'l	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	2
Ungraded..	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2
Total.....	2	2	8	11	15	23	23	55	59	52	29	279

Table 15. — Attendance in Americanization and Elementary Evening Schools for School Year, 1920-1921.

	Male	Female	Total	Bell Evening	Bennett Evening	Bingham Evening	Gilnes Afternoon	Gilnes Evening	Highland Evening	Morse Afternoon	Morse Evening	* Factory Classes, Evening	Citizenship ** Classes, Evening	Totals
Enrollment .....	218	110	328	33	14	17	—	42	58	—	48	13	18	444
				5	17	31	21	41	30	31	34	9	—	298
				38	31	31	21	83	88	31	82	22	18	742
Average membership .....	63	25	88	17	9	8	—	30	32	—	15	11	15	192
				2	17	17	13	27	16	19	13	8	—	131
				19	17	17	13	57	48	19	28	19	15	323
Average attendance .....	54	23	77	14	6	6	—	25	24	—	10	6	12	151
				1	12	12	13	24	13	15	9	6	—	110
				15	12	12	13	49	37	15	19	12	12	261
Number of classes .....	6	.....	.....	2	1	1	1	2	3	1	2	2	1	21
Number of sessions .....	77	.....	.....	35	40	40	59	69	81	52	77	22	33	.....
Length of sessions in hours .....	2	.....	.....	2	2	2	1½	2	2	1½	2	1¼	2	.....
Membership hours .....	13,552	.....	.....	1,330	1,360	1,360	1150.5	7866	7776	1497.6	4312	514.2	990	40,348
Cost of instruction, supervision, supplies, janitors, fuel, light, etc. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$9,542 63
Cost per membership hour .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.236

\*North Packing & Provision Co. \*\*Italian American Citizens Club, Winter Hill.

Table 15-A.—Evening High School—Season of 1920—1921.

	Male	Female	Total
Enrolled . . . . .	305	481	586
Average membership . . . . .	156	170	326
Average attendance . . . . .	111	128	239
Number of teachers . . . . .		18	
Number of sessions . . . . .		57	
Cost of instruction . . . . .		\$4,458 50	
Cost of janitor, fuel, light, and supplies . . . . .		1,622 34	
Total cost . . . . .		\$6,080 84	
Cost per pupil per evening . . . . .		\$0 327	

Average attendance: October, 323; November, 260; December, 244;  
January, 201; February, 204; March, 202.

Table 15-B.—Evening Vocational Classes—Season of 1920—1921.

	Men	Women
Enrolled . . . . .	66	192
Average membership . . . . .	50	65
Average attendance . . . . .	45	52
Number of teachers . . . . .	4	8
Number of sessions . . . . .	40	37
Cost of instruction . . . . .	\$1,235 50	\$1,090 42
Cost of janitors, fuel, and light . . . . .	129 84	319 83
Total cost . . . . .	\$1,365 34	\$1,410 25
Reimbursement from State . . . . .	627 05	632 87
Net cost . . . . .	\$738 29	\$777 38
Net cost per pupil per evening . . . . .	\$0 369	\$0 323

Table 16. — Promotions from Elementary to Junior High Schools.

	1919	1920	1921
Knapp.	62	107	83
Perry.	34	32	39
Pope.	139	127	136
Edgerly.	136	171	171
Glines.	88	83	94
Forster.	35	31	29
Bingham.	66	66	95
Carr.	106	96	113
Morse.	46	61	43
Proctor.	44	59	44
Brown.	43	70	43
Highland.	143	178	155
Cutler.	126	120	115
Total.	1068	1201	1160
Average Membership of Elementary Schools.	8345	8334	8270
Per cent. of Average Membership Promoted	12.79	14.41	14.03



**Table 17. — Attendance Statistics.**

FOR A SERIES OF YEARS.

JUNE	ENROLLMENT	Average Membership	Average Attendance	Per cent. of Attendance	Number of Tardinesses	Ratio of Tardiness to Average Attendance
1912	13,272	11,710	11,083	94.6	6,307	0.569
1913	13,491	11,903	11,216	94.2	7,354	0.655
1914	13,932	12,320	11,610	94.2	7,380	0.635
1915	14,505	12,903	12,189	94.5	8,000	0.656
1916	14,647	13,191	12,323	93.4	9,373	0.761
1917	13,967	12,770	11,933	93.7	7,325	0.613
1918	14,256	12,656	11,798	93.2	8,970	0.760
1919	14,039	12,733	11,609	91.2	9,744	0.839
1920	14,091	12,836	11,807	91.9	11,628	0.993
1921	14,500	13,396	12,533	93.6	11,337	0.904

**Table 18. — Membership, Etc., of High School.**

FOR A SERIES OF YEARS.

YEAR.	Average Membership all Schools.	Largest Number in High School.	Per cent. of Average Membership of all Schools.	Number of Graduates of High School.	Per cent. of Average Membership of all Schools.
1912	11,710	2,023	17.28	296	2.53
1913	11,903	2,081	17.48	296	2.48
1914	11,610	2,111	18.18	273	2.35
1915	12,903	2,258	17.50	311	2.41
1916	13,191	2,288	17.35	348	2.64
1917	12,770	1,973	15.45	340	2.66
1918	12,656	1,520	12.01	332	2.62
1919	12,733	1,854	14.56	310	2.43
1920	12,836	1,714	13.35	241	1.87
1921	13,396	1,762	13.15	316	2.36

For years prior to 1912 see School Report of 1917.

Table 19. Promotions for School Year Ending June 29, 1921.  
Junior High Schools.

GRADE.	On June Promotion List	Unconditionally Promoted to Next Grade	Promoted on Trial	Retarded	Promoted more than One Grade	Special Promotions during Year	Promotees Dropped Back after Two Months' Trial
I	1,189	964	137	88			6
II	974	827	103	44			8
III	924	846	12	65	1		
Total.....	3,087	2,637	252	197	1		14

Percentage of Promotions for School Year Ending June 29, 1921.  
Junior High Schools.

GRADE.	On June Promotion List	Unconditionally Promoted to Next Grade	Promoted on Trial	Retarded	Promoted more than One Grade	Special Promotions during Year	Promotees Dropped Back after Two Months' Trial
I	100	81.0	11.5	7.5			0.5
II	100	85.0	10.2	4.8			0.8
III	100	92.0	1.0	7.0			
Average .....	100	86.0	7.6	6.4			0.7

Table 19-A. — Promotions for School Year Ending June 29, 1921.

## Grammar Grades.

GRADE.	On June Promotion List.	Unconditionally Promoted to next Grade.	Promoted on Trial.	Retarded.	Promoted more than One Grade.	Special Promotions during Year.	Promotees Dropped Back after Three Months' Trial.
I	1,662	1,301	89	262	10	9	
II	1,357	1,139	84	113	21	15	3
III	1,347	1,150	103	84	10	15	1
IV	1,294	1,078	123	82	11	4	6
V	1,370	1,111	165	91	3	5	1
VI	1,255	1,033	127	92	3		3
Total.....	8,285	6,812	691	724	58	48	14

Percentage of Promotions for School Year Ending June 29, 1921.

## Grammar Grades.

GRADE.	On June Promotion List.	Unconditionally Promoted to next Grade.	Promoted on Trial.	Retarded.	Promoted more than One Grade.	Special Promotions during Year.	Promotees Dropped Back after Three Months' Trial.
I	100	78.3	5.4	15.7	0.6	0.5	
II	100	83.9	6.3	8.3	1.5	1.1	0.2
III	100	85.5	7.6	6.2	0.7	1.1	0.07
IV	100	83.4	9.5	6.3	0.8	0.3	0.4
V	100	81.2	12.0	6.6	0.2	0.3	0.07
VI	100	82.4	10.1	7.3	0.2		0.2
Average...	100	82.4	8.5	8.4	0.7	0.7	0.2

TABLE 20. — RESIGNATIONS OF TEACHERS, 1921.

School	Teacher	Resignation took effect	In Service
High .....	Annette E. MacKnight	January 21, 1921	2 years, 6 months
" .....	Frances W. Kaan	October 14, 1921	43 years, 5 months
" .....	Ruth M. Merritt	*February 25, 1921	2 years
" .....	Eudora Morey	*June 30, 1921	47 years
" .....	Lena Gilbert	*June 30, 1921	29 years
" .....	Lillian A. Welch	October 28, 1921	2 months
" .....	Margaret E. Ford	October 28, 1921	3 years, 2 months
Eastern Junior High .....	Alice M. McNally	October 14, 1921	3 years, 5 months
" .....	Almyra L. Davis	January 6, 1922	4 months
" .....	Ida M. Record	January 14, 1922	22 years, 4 months
" .....	May A. Daly	June 30, 1921	6 years
Northern Junior High .....	Maud Rose	June 30, 1921	2 years
" .....	Ruth S. Hawkins	October 31, 1921	2 years, 2 months
" .....	Maria F. May	November 25, 1921	2 months
Western Junior High .....	Charles N. Dunbar	June 30, 1921	2 years
" .....	Miriam W. Hatch	June 30, 1921	2 years
" .....	Genevieve R. Barnes	June 30, 1921	15 years, 8 months
" .....	Grace M. Sanders	June 30, 1921	4 years
" .....	Edith W. Emerson	March 1, 1921	24 years, 3 months
" .....	Sophia C. Mague	June 30, 1921	5 years, 6 months
Bennett .....	Minnie P. Cunningham	June 30, 1921	29 years, 7 months
" .....	Isadore E. Taylor	*November 4, 1921	38 years, 5 months
Baxter .....	Martha W. DeJalay	October 28, 1921	10 years, 2 months
Perry .....	L. Gertrude Allen	April 29, 1921	36 years, 2 months
Pope .....	Mary J. Dewire	October 14, 1921	7 years, 2 months
" .....	C. Edith Taylor	June 30, 1921	3 years
" .....	Marie Higgins	June 30, 1921	2 years

Table 20. " (Concluded.) — Resignation of Teachers, 1921.

School	Teacher	Resignation took effect	In Service
Glines .....	Clara D. Eddy	June 30, 1921	19 years
" .....	Mary L. Gallagher	September 30, 1921	7 years, 1 month
Bingham .....	Priscilla A. Merritt	*†May 1, 1921	36 years
" .....	Elizabeth S. Brown	*December 1, 1921	24 years, 6 months
" .....	Ethel Gross	October 28, 1921	3 years, 5 months
" .....	Helen M. Farr Finnell	April 29, 1921	4 years, 8 months
Morse .....	Alice C. Ray	November 25, 1921	6 years, 9 months
Highland .....	Lillian F. Richardson	†July 19, 1921	17 years
Cadets .....	Inez Atwater	September 16, 1921	5 days
" .....	Mary Drew	September 19, 1921	Did not accept election

\*Retired.

†Died.

TABLE 21. — TEACHERS ELECTED IN 1921.

School	Teacher	Coming From	Salary	Service Began
High	Sadie M. Lyle	Medford	\$1,300	Sept., 1921
"	*Hazel W. Ruggles	Somerville	1,600	
"	*Edith M. Joel	Somerville	1,600	
"	Ruth E. Arrington	Somerville	1,300	Sept., 1921
"	Annette B. MacKnight	Somerville	1,600	Sept., 1921
"	Harriet C. Whitaker	Saugus	1,600	Sept., 1921
"	Margaret Cochran	Norwell	1,400	Sept., 1921
"	Lillian A. Welch	Somerville	1,600	Sept., 1921
"	Joyce Bisbee, Librarian	Somerville	1,052 25	Did not accept
"	Elizabeth I. Fury	Not teaching	1,400	Sept., 1921
"	Sophia C. Mague	New York	1,600	Oct. 31, 1921
"	Edna C. Woodbury, Librarian	Not teaching	754	Nov. 7, 1921
Eastern Junior High	Adela L. Balch	Scituate	1,500	Sept., 1921
"	Almyra L. Davis	Melrose	1,500	Sept., 1921
Southern Junior High	Ruth Conner	Colchester, Conn.	1,500	Sept., 1921
"	Mildred E. Blaisdell	Lexington	1,500	Sept., 1921
"	Edith V. Blood	East Haven, Conn.	1,500	Sept., 1921
Northern Junior High	Katherine Briggs	Cranston, R. I.	1,500	Sept., 1921
"	Maria F. May	Medford	1,450	Oct. 3, 1921
Western Junior High	Ellen L. Bellamy	Bridgewater	1,500	Sept., 1921
"	Helen M. Stone	Bellows Falls, Vt.	1,500	Sept., 1921
"	Prescott E. Whitfield	Somerville	1,500	Sept., 1921
Hanscom	Dorothy C. Huddy	Cambridge	1,200	November 7, 1921
Bennett	Mary B. White	Private School	900	November 7, 1921
"	*M. Regina Desmond	Somerville	1,250	November 7, 1921

Table 21. — (Concluded.) — Teachers Elected in 1921.

School	Teacher	Coming From	Salary	Service Began
Pope	Eunice S. Higgins	Somerville	1,000	Sept., 1921
"	Helen V. Hurley	Revere	1,300	Sept., 1921
Glines	Monira C. Gregory	Rockland, Me.	1,300	Sept., 1921
"	*Ida M. Kane	Somerville	1,400	
"	Helen P. Colley	Mansfield	1,300	Sept., 1921
"	Marjorie Gustin	Not teaching	900	Oct. 17, 1921
Bingham	Anna G. Molloy	Somerville	1,300	Sept., 1921
"	Ethel F. Rudd	Somerville	1,000	Sept., 1921
"	Marguerite Driscoll	Somerville	1,000	Nov. 7, 1921
Morse	Elizabeth White	Wakefield	900	Nov. 7, 1921
"	*Gertrude Prichard	Somerville	1,200	
Highland	Beatrice L. Waterhouse	Attleboro	1,500	Sept., 1921
"	Marion Holmes	Los Angeles, Cal.	1,300	Sept., 1921
Cutler	Mildred A. Whitman	Medford	1,500	Apr. 4, 1921
"	Dorothea G. Lamb	Somerville	1,350	Nov. 7, 1921
"	Ruth S. Coldwell	Hingham	1,100	Nov. 7, 1921
Continuation School	Martha Walker	Somerville	1,000	Sept., 1921
Physical Instructor	Arthur R. Ayer	Boston Univ.	2,500	Sept. 27, 1921

\*Transferred from some other school in Somerville at higher salary.

Table 22. — Leave of Absence of Teachers.

Isabel J. Tift, for three months beginning January 3, 1921.  
 Minnie P. Cunningham, from January 1 to close of school year.  
 Eliza I. Patterson, from April 25 to close of school year.  
 Edith L. Laycock, for school year ending June 30, 1922.  
 Alice S. Hall, for school year ending June 30, 1922.  
 M. Edna Merrill, for school year ending June 30, 1922.  
 Helen L. Follansbee, from October 3 to close of Xmas vacation.  
 Sarah E. Murphy, from October 3 to March 1, 1922.  
 Elizabeth S. Brown, from September 1 for an indefinite period.  
 Florence E. Locke, from September 1 for an indefinite period.  
 Frances E. Robinson, from September 1 for an indefinite period.  
 Annie H. Hall, from November for an indefinite period.

Cadets.

Rosa Aberle	Emily Higgins
Inez E. Atwater	Helen Jackson
Mary Drew	Enna Bella Weisman
Sarah Wolfe	

Table 23. — Transfers of Teachers.

Teacher	From	To
Hazel W. Ruggles	Eastern Junior High	Senior High
Edith M. Joel	Southern Junior High	Senior High
Gertrude E. Prichard	Hanscom kindergarten	Morse kindergarten
Lillias T. Lawton	Bennett	Baxter
M. Regina Desmond	Bennett kindergarten	Bingham kindergarten
Etta R. Holden	Baxter	Knapp
Etta D. Ellsworth	Glines kindergarten	Americanization work
Mary A. Whitney	Morse	Americanization work
Eva E. Perkins	Highland	Pope

Table 24. — Number of Teachers.

FOR A SERIES OF YEARS.

YEAR.	High School.	Junior High Schools.	Elementary Schools.	Special Teachers.	Assistants not in Charge of Room.	Men.	Women	Contin.	Amer.	Total.
1912	66†	.....	252*	22	9	40	309	.....	.....	349
1913	68†	.....	257*	28	12	39	326	.....	.....	365
1914	75†	.....	266*	30	20	44	347	.....	.....	391
1915	76†	.....	272*	31	15	45	349	.....	.....	394
1916	77†	.....	290*	30	15	46	366	.....	.....	412
1917	70†	65	238*	33	17	49	374	.....	.....	423
1918	70†	108	207*	28	5	49	369	.....	.....	418
1919	70†	106	207*	26	9	48	370	.....	.....	418
1920	69†	113	212*	23	8	54	371	.....	.....	425
1921	75†	115	216†	25	14	60	392	5	2	452

‡Including a secretary and a matron. \*Including four kindergartners.

† Including seven kindergartners.



Table 25. — Books Authorized for Use, 1921.

For High and Junior High Schools,—

As Text Books,—

Poco-a-Poco Hall—World Book Co.  
 First Spanish Course, Hills & Ford — D. C. Heath & Co.  
 Community Civics, Hughes — Allyn & Bacon.

For High School,—

As Text Books,—

Study of Nations, Harriet E. Tuell — Houghton, Mifflin Co.  
 Modern Europe, Charles Downer Hazen — Henry Holt & Co.  
 Grammaire Francais, DeSauze — John C. Winston Co.  
 Cours Pratique de Francais pour Commencants, DeSauze — John  
 C. Winston Co.  
 First French Composition, Allen & Schoell — Henry Holt & Co.  
 Short Stories, Moulton — Houghton, Mifflin Co.  
 Intermediate Spanish Reader, Harrison — Ginn & Co.

For Use in Americanization Classes, —

Community Civics, Hughes — Allyn & Bacon.  
 English for New Americans, Field & Coveney — Silver, Burdett  
 & Co.  
 English for Coming Citizens, Goldberger — Scribner's Sons.  
 My Country, Turkington — Ginn & Co.  
 The Community and the Citizen, Dunn — D. C. Heath & Co.  
 English for Foreigners, O'Brien — Houghton, Mifflin Co.  
 Practical English, O'Toole — D. C. Heath & Co.

Table 26. — HIGH SCHOOL GRADUATION.

The graduation exercises of the High School occurred  
 Wednesday, June 22, 1921.

#### ORDER OF EXERCISES.

HERBERT CHOLERTON, Chairman of the School  
 Committee, Presiding.

1. OVERTURE — "Calif of Bagdad" ..... Boieldieu  
 High School Orchestra, W. Allen Newton, Leader
2. PRAYER — Rev. George A. Lawson .  
 Pastor of the Union Square Baptist Church
3. SINGING — "Prayer of Thanksgiving" ..... Kremser  
 Graduating Class
4. ESSAY — "The Present Need of Ideals"  
 Genevieve E. Lantz

## ORDER OF EXERCISES

## Continued.

5. RAKOCZY MARCH — ..... Liszt  
Orchestra
  6. ESSAY — “The Significant Figure or the Cipher”  
George E. Megathlin
  7. SINGING — “Olaf Trygvasson” ..... Grieg  
Graduating Class
  8. PRESENTATION OF MEDAL GIVEN BY SOMERVILLE POST  
NO. 19 AMERICAN LEGION  
Presented by Arthur D. Healey
  9. ADDRESS TO GRADUATES  
Frank Oliver Hall, D. D.,  
Professor of Homiletics, Tufts College
  10. PRESENTATION OF DIPLOMAS TO GIRLS
  11. SINGING  
“Heaven May Forgive You Kindly” — (Martha) ..... Flotow  
Quintet and Chorus
  12. PRESENTATION OF DIPLOMAS TO BOYS
  13. POSTLUDE — “American Patrol”  
Orchestra
- Singing and orchestra under the direction of James P. McVey, Supervisor of Music in the Public Schools

## LIST OF GRADUATES

June, 1921

\*Graduated with honor

- |                              |                              |
|------------------------------|------------------------------|
| *Agnes Irene Adams           | Anna Josephine Delaney       |
| Leonore Anna Aitken          | Helen Ruth Desmond           |
| Edith Augusta Anderson       | Mabel Amelia Dix             |
| Waltie Marie Barter Anderson | Theda Louise Dole            |
| *Alice Elizabeth Ayers       | Elizabeth Nora Donahue       |
| Dorothy Blanche Baker        | Gertrude Louise Donahue      |
| Mary Margaret Baldwin        | Gertrude Teresa Donahue      |
| Vesta Webb Barton            | Mary Madeleine Dorney        |
| Mildred Mae Bastion          | Florence Elizabeth Dromgoole |
| Leila Dunbar Beardsley       | Ruth Marion Edgerly          |
| Evelyn Mildred Belcher       | Ruth Ola Elliott             |
| Helen Charlotte Bensaia      | Marguerite Carmen Ellis      |
| Ethel Sumner Benson          | Sibyl Ernestine Emerson      |
| Nellie Bertram               | Ruth Matilda Englehardt      |
| Mildred Louise Black         | Mary Gertrude Fenton         |
| Grace Winona Blaisdell       | Marie Ferrette               |
| Edith Mertie Blake           | Drusa Miles Fielder          |
| Mildred Catherine Blake      | Marguerite Evelyn Flanagan   |
| Marjorie Ruth Bowlby         | Madeleine Eugenia Flynn      |
| Lillian Hazel Brown          | *Hazel Marjorie Freeman      |
| Penrose Katherine Brown      | Marion Grace Gaddis          |
| *Phyllis Louise Brownell     | Frances Claire Geaton        |
| Katharyn Buck                | Ruth Edith Gilmore           |
| Evangeline Ruth Buckley      | Geraldine Victoria Godfrey   |
| Margaret Ellen Bucknam       | Julia May Goduti             |
| Margaret Mary Callahan       | Margaret Katherine Gorman    |
| Ella Jane Cameron            | Florence Margaret Greene     |
| Dorothy Elizabeth Campbell   | Dorothy Bullard Grimes       |
| Mildred Elizabeth Campbell   | Louise Gertrude Haley        |
| Ethyl Lillian Carpenter      | Doris Frances Hall           |
| Esther Cederstrom            | *Esther Dearing Hamilton     |
| Gertrude Marion Chapin       | Teresa Helen Hamparsoom      |
| Mildred Eliza Chase          | Mary Kathryn Harer           |
| Marion Isabel Chute          | *Lena Harriman               |
| Elizabeth Virginia Colbert   | Mary Louise Harrington       |
| *Marjorie Mae Cole           | Ruth Mildred Hayes           |
| Mary Frances Cole            | Dagny Ulrica Hedberg         |
| Ruth Mary Collins            | Grace Marie Henchey          |
| Elizabeth Mary Connor        | Louise Beatrice Heron        |
| Alice Mary Conrad            | Helen Gertrude Hession       |
| Gertrude Louise Cotter       | Beatrice Veronica Holmes     |
| Margaret Josephine Cotter    | *Janice Alicia Hoxie         |
| *Helen Maud Cowen            | Rae Francisca Hunt           |
| Marion Doris Cowick          | Edna Mae Irving              |
| Marjory Creighton            | *Elsie Ingeborg Jacobsen     |
| Gertrude Florence Cromwell   | Lillian Beatrice Johanson    |
| Dorothy Pauline Cronin       | Gladys Johnson               |
| Margaret Virginia Crowne     | Gladys Adella Johnston       |
| *Laura Mabelle Cruwys        | Irene Victoria Josephson     |
| Marion Elsie Dates           | Louise Joyce                 |
| Mildred Ripley Davis         | Margaret Johanna Kearns      |

Doris Young Kemp  
 Pearl Kerner  
 Marion Ladd  
 \*Genevieve Electa Lantz  
 Ruth Lappin  
 Janette Larabee  
 Dagmar Elizabeth Larson  
 Ethyl Minerva Lebovich  
 Mary Christina Lehan  
 Katherine Theresa Lombard  
 Susan Josephine Lonergan  
 Beatrice Viola Long  
 Katharine Frances Long  
 Elizabeth Ruth Lowe  
 Evelyn Philippina Macdonald  
 Marion Florence Macdonald  
 Helen Jean MacFarlane  
 Beatrice Evelyn Mack  
 Eleanor Laurie MacKay  
 Jessie Louise MacLean  
 Ruth Bessie MacTewigan  
 Katherine Virginia Magee  
 Josephine Elizabeth Magwood  
 Margaret Calista Mahoney  
 \*Margery Frances Marshall  
 Mary Helen Martin  
 Mildred Imogene Maxwell  
 Helen Gertrude McCarthy  
 Phyllis Euphemia McGaw  
 Jean McTaggart  
 Georgia Frances Merriam  
 Alice Frances Morgan  
 Veronica Mary Morrissey  
 Josephine Elizabeth Murphy  
 Kathleen Doris Murphy  
 Doris Louise NeRay  
 Elizabeth Cornelia Nichols  
 Margaret Rita Nolan  
 Louise Mary Notaro  
 Margaret Helen O'Meara  
 Hilma Evelyn Ouimette  
 Helen Valentine Peters  
 Eleanor Shaw Pike  
 Blanche Clifton Piper  
 Valborg Henrietta Prebensen  
 Bertha Price  
 Mary Sutherland Ranton  
 Phyllis Mae Ricker  
 Annie Margaret Mary Robillard  
 Mabel Elizabeth Robinson  
 Ruth Muriel Rood  
 Doris Freeman Rudd  
 Maud Vesta Russell  
 Elsie Ryder  
 Sarah Elizabeth Sanders  
 Eleanore Catherine Sculley  
 Alena Monica Shea  
 Emily Hortense Sheldon  
 Marie Emelynn Simmons  
 Edith Mary Simonds  
 Winnifred Ursulle Simpson  
 Katharine Rose Sloane  
 Gertrude Edith Smith  
 Louse Stockbridge  
 Gladys Gertrude Stone  
 \*Ernestine Adelle Strehle  
 Winifred Mae Sullivan  
 Bessie Summers  
 \*Beatrice Sweet  
 Katherine Taber  
 Bertha Elsie Tarpey  
 Madeline Elizabeth Taylor  
 Grace Victoria Toomajian  
 Mildred Louise Toomey  
 Esther Topham  
 Irma Price Traphagen  
 Edna May Tuttle  
 Flora Louise Walker  
 Mary Frances Wall  
 Audrey Edwina Hazel Ware  
 Florence May Watts  
 Mildred Mary Welch  
 Hazel Clinkard Wellington  
 Lillian Gertrude Wells  
 Alice Douglass Williams  
 Frances Josephine Williams  
 Gertrude Irene Williams  
 Mary Agnes Williams  
 Evelyn Aldena Wood  
 Leonora Wood  
 Loretta May Wright  
 John Miliot Aloise  
 Paul Millner Ashton  
 Edward Thomas Austin  
 Harvey Joseph Baker  
 Eugene Russell Banks  
 Paul Lepper Bartram  
 Lawrence Baruffaldi  
 Vincent Byron Bennett  
 Andrew Campbell Berry  
 John Edward Bertwell  
 Saul Biller  
 Walter Sumner Blake  
 George Rogers Blunt  
 Joseph Henry Bond  
 Meyer Bronstein  
 Albert Samuel Brown  
 William Henry Callahan  
 Francis Archibald Campbell  
 Henry Louis Catani  
 Francis Gardner Chase  
 Armin Gerard Clement  
 Frederick James Clouther  
 Arthur Francis Collins  
 Henry Roland Conley  
 George Robert Copeland  
 Theodore Alfred Corliss  
 George Kermit Coyne

Randall Lawrence Coyne	Kenneth Charles Martin
*Paul Revere Crowley	Sherman Otto Maxwell
Edward William Cudmore	Francis DeCelles McCabe
*Allen Willard Daggett	*George Everett Megathlin
Robert Franklin Davis	Leonard Milano
Harrison Gilchrist Dodge	Donald Hayes Miller
Edward David Donovan	Patrick Joseph Morrison
*John Curtis Dunbar	John Gordon Murphy
Irving Edelstein	Frank Martin Murray
*James Edward Evans	Arthur Eliot Newell
Gordon Willard Farr	William Allen Newton
Guertin John Fay	Chester Arthur Nolan
Francis Monroe Fielder, Jr.	Thomas Francis O'Leary
*James Howe Finley, Jr.	Charles Joseph O'Neil
Hermon Anthony Fleming, Jr.	Maurice Arthur Pearlman
William Frederick Fletcher, Jr.	Harold Pearson
George Allen Fogg	Francis Henry Pedrazzi
John Edward Garrod	Leo Joseph Query
Warren Belcher Gilkey	William John Lawrence Rawson
Michael Edward Giobbe	Elmer Stuart Ricker
Joseph Elzear Giroux	Edward Harrison Rideout
Norman Carle Glassman	Everett Woodbridge Saville
Harry Golburgh	James Vincent Scotti
Mathew Goldburgh	Francis Gregory Sexton
Frederick Coker Hadley	Ralph Osgood Silva
William Peter Hanley	Reginald Hoit Simpson
Fortis Eugene Hart	Charles Irving Smith
Clarence Fulton Head	Harry Stanley Smith
Gustav Arnold Hedlund	Harvey Solomon
George Edward Hemeon	Frederick Paul Stern
Francis Cornelius Hession	*Harold Elmer Stevens
Walter Albert Holmberg	Irving Emerson Stone
Giles Elberne Hopkins	Anthony Taglino
*Albert Conant Horton	Joseph Howard Taylor
Lewis Bruce Jones	William Henry Traverse
Harold Carl Josephson	Clarence Newman Truesdale
Andrew Humbert Landini	Edward T. VanUmmersen
Edmund Murray Lanigan	Richard Howard Walsh
*Andrew Shephard Laurie	William Francis Walsh
Louis Levinson	Robert Souther Way
Ralph Webster Lewis	Seth Low Weeks
Francis Cummings Loan	Henri Weinberger
Kramer Carl Lofblad	*Arthur Hilding Werner
John Mead Lynch	Elmer Gustaf Westlund
Ernest Robbins Macdonald	Arthur Alden Wilson
Ronald Boland Macdonald	George Lindroff Witham
James Ralph MacIntyre	Wilbur Henry Wood
Philip Angus MacSween	Everett Warren Young

Total number of graduates, 316: Boys, 123; Girls, 193.

Junior High School graduations occurred in the school buildings on June 24, 1921.

### LIST OF GRADUATES

#### Eastern

Gasparo A. Albano	Mildred Geneva Gray
Wendell Garfield Ames	Nellie Gray
Lillian Frances Andy	Andrew Charles Haggerty
Claire Viola Anthony	Barbara C. Harding
Helen Marie Ash	Isabel C. Harding
Gertrude Catherine Barry	Elizabeth W. Hennigan
Richard G. Barry	Annie E. Horan
Dwight E. Bellows	Agnes Loretta Hourihan
George Kennett Benham	Helen Marie Hurley
Adeline Bensaia	Mildred Lucille Hutchinson
Rose Blish	Harry F. Jackson
C. Woodford Bliss	Alice Rita Johnson
Florence Maria Bond	Charles W. Knowlton
John Patrick Brophy	Ralph Michael Langone
Alma M. Brosseau	Cora Emma Laurendeau
Gertrude May Brown	Joseph P. Leahy
Barbara Bullerwell	Bertha Helene Leville
Randolph Thomas Burleigh	Ethel M. Lowney
Kenneth R. Campbell	Anna Grace MacDonald
Marjorie Isabel Carl	Artemas A. MacLean
Helen Veronica Carney	Raymond E. McLaughlin
Daniel Thomas Carroll	Helen Bradford Macfarlane
Doris Churchill	Margaret M. Maguire
Adeline Clark	Mildred Elizabeth Mahoney
Dorris M. Clough	Lillian Emily Milano
Anna Margaret Coneeny	Hazel J. Miles
Patrick Joseph Connolly	J. Vincent Money
James J. Connell	Louise Catherine Moran
James J. Cotter	Alice Morris
Leo F. Cotter	Charles W. Murphy
George W. Crosby	Edwin F. Murphy
Frances Marie Crowe	Eugene F. Murray
Herbert Bossen Davis	James Nargisian
Bertha Marie Dallmer	Catherine Frances Noreau
Thomas F. Doherty	Mary Patricia O'Brien
Minnie Duchin	John Francis O'Leary
Hugh William Duffy	Fannie Olfson
Theodore F. Dunn	George Harry O'Malley
John F. Durgin	Kathryn Merrill Peak
Gretta Louise Dyas	Ruth E. Perkins
Charles P. Englehardt	Earl G. Pithie
Malcolm J. Farrell	Louis Price
Iris K. Farrington	Joseph E. Reegan
Joseph F. Fitzgerald	Lester H. Reiff
Ruth Fowler	James Norman Remby
Marion L. Francis	Maynard Ralph Richardson
Albert H. Giroux	Frances Riley
Joseph W. Giroux	Etta Viola Roach
George E. Gordon	Geraldine Robinson
Catherine A. Graham	Madelyn W. Roffe

Robert A. Rogers	John A. Thomson
Robert Joseph Ryan	Rose Tick
Benjamin Shapiro	Lillian Mary Tobin
Mildred Herberta Marshall Shirley	Arthur J. Tremblay
Arthur H. Slafsky	Barbara Tuttle
Margaret E. Sliney	Everett M. Upton
Dorothy M. Smith	Frances M. Voight
Mildred Nickerson Smith	Mildred Elizabeth Walker
Edward Clifford Sullivan	William Welch
Mary Phillis TaKash	

### Southern

Cosmo P. Albani	Helen K. Cook
Coleman Andelman	Henry P. Coradi
Hugo G. Anderson	Mary Theresa Corcoran
Lillian Mary Andrade	Cynthia H. Coville
Jane Archibald	Winnifred Esther Coville
James E. Aylward	Berenice C. Coyne
Clara Baker	William Crocker
Petronilia M. Balboni	Ralph E. Cromwell
Robert H. Bates	Francis C. Crotty
Edgar D. Behenna	John Francis Crotty
Alice M. Belden	Margaret Rita Cullinane
Walter S. Bennett	William F. Daly
Helen R. Bergen	Loretta Emma Daykin
Louis Charles Berman	Margaret Evelyn Deluise
Elsie Sarah Bernstein	Arthur F. DePadua
Matthew J. Bettencourt	Anthony DiCecca
Philip L. Bidmead	Anthony DiCredico
Josephine M. Bonardi	Daniel C. DiFazio
Marguerite M. Boynton	Jeremiah Gerald Dineen
Grace M. Bratton	Edmond Diozzi
Mary Brochi	Katherine I. P. Dolan
Alice Mae Brown	Joseph Donahue
Miriam R. Brown	Agnes Frances Donovan
William E. Brown	John Patrick Donovan
Harold Thomas Buckley	Josephine Donegan
James H. Buckley	Annie Gertrude Doty
Phyllis N. Burns	Doris Dow
Paul F. Calzolari	Alice Frances Doyle
Paul Caouette	John P. Duarte
Celia F. Capodanno	Ann Rita Dunleavey
Saverio A. Capodilupo	Mabel L. Dymont
Lena J. Carbone	Harry Edelstein
Angela P. Carroll	Doris Mae Edwardes
Laura M. T. Cavazzoni	Hubert L. Edwardes, Jr.
Herbert F. Clark	Harold D. Emerson
Julius Clayman	Goldie Belle Ernst
Esther M. Cohen	Mabel E. Everett
Francis A. Cole	Lea Ferrarini
Elizabeth R. Collins	Margaret M. Finn
Irene Collins	Christine Mary Fitzgerald
Angela Flavan Conlan	James J. Fitzgerald
James R. Connaughton	Martin John Fitzgerald
Gerald A. Conway	Ruth C. Flanagan
Walter Smith Conway	Gertrude Forster

Blanche Clara Fortunati  
 Patrick J. Flynn  
 Raymond T. Flynn  
 Clara May Fralick  
 Charles Frank  
 Mary Futteransky  
 Charles Wm. Gaffney  
 Ruth Alberta Gallagher  
 Helen J. Gannon  
 Ruth R. Gethin  
 Rocco Giannantonio  
 Norman J. Grady  
 Patrick Grassia  
 John F. Griffin  
 Katherine Griffin  
 Pauline Lyle Griffin  
 Stella Marie Guazzaloca  
 Margaret Guilderson  
 William R. Haley  
 Edwin A. Hall  
 Albert William Hanlin  
 Emma Frances Hanlon  
 Alice M. Hamilton  
 Mildred E. Hanson  
 Louis F. Harer, Jr.  
 Gladys L. Harlow  
 William G. Harrington  
 Gladys M. Harris  
 Paul A. Headley  
 Ashley Cymric Hedberg  
 Helen **Elizabeth Herrick**  
 Mildred L. Higgins  
 John Milton Holden  
 Gertrude A. Holmes  
 Oliver W. Holmes  
 Myles P. Joyce  
 Raymond A. Kaspar  
 Eleanor G. Keefe  
 John H. Kelly  
 Walter W. Kelly  
 Bertha C. Kelty  
 Kathryn Kenny  
 Jennie Kerr  
 Margaret J. Kiley  
 Selwyn C. Killani  
 James Michael Kilmartin  
 Charles Henry Kilty  
 Mildred Agatha King  
 Leo B. Kirk  
 Joseph Kirkland  
 John Mark Killigian  
 Margaret Eileen Kuhn  
 Mary Margaret Lanigan  
 Catherine Corrine Lavey  
 Mary E. Leddy  
 Florence Theresa Leddy  
 Ruth O. LeGaltee  
 Helena Mary Leyden  
 James Moore Logan

Helen Mary Lowry  
 Frederick W. Lundgren  
 Anna M. Lyons  
 Charles E. Lyons  
 Merl MacGillivray  
 John W. MacIver  
 Grace E. MacLachlan  
 Gladys MacLaughlin  
 Dorothea L. MacLeod  
 James Lawrence Magee  
 Manuel A. Maness  
 Michalina Manfra  
 George N. Mangurian  
 Catherine M. Manning  
 Aram C. Matthewsian  
 James C. McAuley  
 Harold McCarthy  
 William V. McCarthy  
 Catherine McGahan  
 Albert Christopher McGowan  
 Margaret T. McLaughlin  
 G. Ruth McMenimen  
 Jennie Hazel Mellett  
 William Anderson Millar  
 John D. Miller  
 John J. Mohan  
 Albert C. Molloy  
 Eileen V. Moloy  
 John Anthony Mongan  
 Myrtle Elizabeth Morrissey  
 Thomas Redmond Mullins  
 Charles William Murphy  
 William E. Murphy  
 Dorothy T. Newman  
 Herbert A. Nolan  
 John James O'Brien  
 Mary Katnarine O'Connor  
 John J. O'Connor  
 George C. O'Keefe  
 Francis W. O'Leary  
 Doris F. Olin  
 Catherine F. O'Loughlin  
 John E. O'Loughlin  
 Edwin A. Olson  
 Doris Avery Page  
 Loretta Mabelle Patterson  
 George B. Phillips, Jr.  
 Clara J. Portesi  
 Mary A. Potter  
 Mary C. Purtell  
 John D. Raffi  
 Frank W. Ramsey  
 Mary Ranaghan  
 William H. Regan  
 Margaret V. Reynolds  
 Grace Adams Riddler  
 Joseph D. Riley  
 Lillian H. Robertson  
 William J. Rodwell



Dora M. Rogers  
 Richard E. Rolls  
 Iolanda Mary Rossi  
 Eunice M. Russell  
 Helen F. Ryan  
 Evelyn I. Ryer  
 Theresa Marie Sainato  
 Margaret Theresa Sammon  
 Almas Sarkesian  
 George Richard Savani  
 Virginia Gertrude Sawin  
 Leslie J. Scott  
 Frances Gladys Sefton  
 Cycla G. Shorey  
 Ella May Smith  
 Esther G. Smith  
 Helen May Smith  
 W. Kenneth Soar  
 Irving G. Spering  
 John T. Stapleton  
 Armand F. St. Coeur  
 Frederick J. Stynes  
 John Raymond Sullivan  
 Maurice J. Sullivan  
 Dorothy Summerhayes

Elmer C. Swanson  
 Louise Marie Taglino  
 Kenneth Hudson Taylor  
 Santa E. Testa  
 Evelyn Elizabeth Thompson  
 M. Irene Thompson  
 Mary B. Thornton  
 Richard Tousey  
 Mary Frances Traverse  
 John Twigg  
 Eleanor Van Ummersen  
 Robert I. Wallace  
 Frederick L. Walsh  
 Helen Cecile Waters  
 Helen Isabella Weymouth  
 Catherine E. White  
 Ethel A. Whittier  
 Claire Josephine Williams  
 Franklin Wilson  
 Leroy A. Wilton  
 Elsie M. Wood  
 Edwin F. Wraga  
 Timothy Joseph Yeaker  
 Hazel H. Young  
 Marguerite P. Younker

### Northern

Ethel M. Aikens  
 Edith Allen  
 Eleanore M. Arata  
 Albert Whiting Armstrong  
 Frederick G. Baker  
 Catherine Baldwin  
 Charles H. Barrett  
 A. Mildred Bradley  
 Emilie Bartlett Cole  
 Wallace C. Baxter  
 Newman Maurice Biller  
 Morris Bloomstein  
 Florindo Bocchino  
 Max Bornstein  
 George Edward Bradley  
 Ruth E. Brann  
 S. Ethel Browne  
 Arthur E. Bullinger  
 Everett G. Buxton  
 Romeo A. Calderoni  
 Carl Hjlmar Carlson  
 John Joseph Chambers  
 Daniel Russell Cheney  
 Charles Wellington Coe  
 Rebecca Cohen  
 William James Coit  
 Margaret Collins

Ruth A. Collins  
 Walter Ernest Collins  
 Mary M. Conley  
 Harry Mark Connelly  
 John Joseph Connors  
 Augusto J. Corrieri  
 Vincent R. Cronin  
 Edmund James Cusick  
 Mary Caroline Davis  
 Alice E. Delaney  
 Joseph Edward Doherty  
 Lester Joseph Doherty  
 Thurlow Jackson Dolliff  
 Lillian Douglas  
 George Oliver Emery  
 Dorothy Jane Eyre  
 John Vincent Fannon  
 Burton F. Faulkner  
 Mary Finigan  
 Ethel May Fitzgerald  
 Catherine Agnes Foley  
 Francis Xavier Foley  
 Rena S. French  
 Orland Edward Fritz  
 Anna Marie Frizzell  
 Mabel E. Fuller  
 Merle E. Fuller

John T. Gallagher	Marceline Marie McManus
William Frederick J. Gedick	Lillian T. Mellen
Flora Gordon	Dorothy Rose Mellett
John A. Gorman	Margaret Elizabeth Mellett
Mary D. Grady	Edward Mendel
Gerald Ludlow Grant	Antonio Mocogni
Alexander L. Gusmini	Agnes Theresa Moore
Hattie J. Hall	Mary G. Moore
Ruth Taska Hall	Raymond Stanley Moore
Laura I. Hanna	Helen M. Moran
Roy Stanley Hanslick	Mary H. Mornane
Mary A. Harrington	Mary E. Morrissey
Marjorie Harts	Dominick S. Mucci
Ralph Harry Hatfield	Helen Gladys Murphy
Elma Louise Hill	C. Esther Norander
Doris Irene Hodgdon	Kendall B. Northrop
Wesley C. Hodgdon	Louis Antonio Notaro
Kenneth B. Hofmann	Esther M. O'Rourke
Felix William Hogan	Jacob Nazar Panjarjian
Bessie Doris Howland	Ruth M. Paterson
Doris Mildred Hyde	Mary Frances Patrazza
Gladys Lucella Jaques	Frances M. Pugatch
Anna Sarah Jelley	Albert Benjamin Pullo
Elizabeth Jeremiah	Leo H. Reardon
Warren L. Johanson	Eugene J. Redmond
Raymond L. Jones	Elinor Reed
Wilmot W. Jones	Thomas Arthur Riley
Eugenia Willis Jordan	Charles Isaiah Roberts
Joseph Francis Kelley	Roberta Robertson
Louise Nona Kelley	Fannie Rosen
Matthew Kelley	L. Ariel Ross
Helen Elizabeth Kelliher	Grace Margaret Ryan
Agnes Mary Kennedy	Catherine E. Sampson
Albert L. Kennedy	Ida Marguerite Sawin
Dorothy Belle Kenney	Dorothy Sawyer
Norwood Davis Kenney	Josephine Mary Seretto
Edward Kiley	Alice C. L. Shea
Jean Elizabeth Lamson	Bessie M. Smith
Loretta Leahy	B. Frances Smith
Edwin Osgood Learned	Rose Anna Smith
Louise S. Lindsey	Virginia Amina Smith
George Thomas Linehan	Samuel Solomon
Alice M. Long	Ewin Terry Sperring
Catherine A. Long	Josephine C. Stacey
Harold J. Lovett	Arthur Edward Stack
Edward C. Lowell	Sylvia J. Stone
Mary A. Lynn	Mildred Frances Swasey
Mildred L. Macdonald	Grace E. Sykes
Ruth S. MacDonald	Millicent Madelyn Taylor
Mary Anna MacKenzie	David Oliver Thebedo
Thomas J. MacKenzie	Elizabeth Thompson
Mary Maguire	Esther Mae Tucker
Paul James Maguire	Elizabeth Van Cor
Richard Maguire	Emily Marie Van Ounsem
Agnes Maher	John Van Ounsem
Margaret Elizabeth Malvey	Richard C. Waldron
Walter Ernest Mann	Frank J. Wall
Archie G. March	Helen M. Walsh
Madeline McManus	Helen Walsh

Thomas J. Walsh  
Francis H. Webber  
Priscilla Webster  
Dorothy Mary White  
Dorothy Ruth White

Alexis C. Willis  
John F. Wilson  
Thomas M. Woodbridge, Jr.  
Alexander G. Zographos, Jr.

## Western

Claire Andarson  
Esther M. Anderson  
Howard Anderson  
Mary Elizabeth Anderson  
Victoria Louise Atley  
Robert Bailey  
Ruth Jeanette Bain  
Albert Baker  
Chester N. Baldwin  
Raymond Baldwin  
Robert Barclay  
John Hunnewell Beedle  
Raymond F. Bennett  
Ruth Valborg Berentsen  
Ruth Linnell Berry  
Russell Beulay  
Alfred T. Bibby  
Edward J. Blair  
Hugh I. Blair  
Charles Hargraves Bliss  
Bertha K. Bockman  
Violet G. Bond  
Elizabeth L. Bowser  
Edward T. Brockhouse  
Alexander Brown  
Dorothy Viola Brown  
Elliot C. Brown  
Mildred E. Brown  
Marion Jane Brundige  
Frances L. Bullen  
Frances L. Burhart  
Thomas Elmer Burns  
Inda Elizabeth Butler  
Adeline T. Cahalan  
Benjamin B. Cahoon, Jr.  
Dorothy Louise Cahill  
Helen E. Carey  
Francis J. Carnes  
Carl E. Carlson  
Violet Elizabeth Carlson  
Beatrice Evelyn Carr  
John Francis Vyvian Carter  
William F. Casey  
Alice F. Chandler  
Arthur N. Chebook  
Eleanor May Clark  
Irene Elizabeth Clucas  
Irene Mildred Connell  
Eben T. Colby  
Francis Gilman Collier

Rudolph Edward Condon  
Mary M. Conway  
Katherine Cooper  
William Oliver Corliss  
Dorothy Cragin  
Gladys Catherine Crawford  
Allan H. Crosby  
James E. Cruickshank  
Dorothy Louise Cushing  
Madelon Custer  
Valida Denton  
Ruth Estella Dixon  
S. Benaiah Dolloff  
Paul Rivers Donaldson  
Reta Hawes Donaldson  
Mildred S. Downey  
Warner Duhig  
Clarice Raymond Dunbar  
Dorothy May Duquette  
Madalen Rose Dwyer  
Avis Bates Eaton  
Clifford E. Ells  
Helen M. England  
Florence V. English  
Stanley H. Englund  
Stuart A. Englund  
Florence A. Ewell  
Ruth Lucille Ewell  
Norman Eyster  
Dorothy E. Faulkner  
Rose L. Felt  
Harold S. Ferguson  
William Fermoye  
Louise Marie Ferretti  
Gordon W. Finney  
Bernice M. Fitzpatrick  
Dorothy May Ford  
Mabel Fortier  
Lillian May Fowler  
Clarence Kendall Fraser  
Atherton Graydon Fryer  
Natalie R. Fuhrman  
H. Reginald Fuller  
Rose Agatha Gallant  
Constance M. Garrod  
Reginald Packer Geer  
Beulah May Glidden  
Edward Walter Goguen  
E. Clifford Goodspeed  
Virginia Grant

Ruby Bertha Graves  
 Ruth Emily Greenleaf  
 Helen Girard  
 Marion Louise Grimes  
 Marion Alberta Grout  
 Arthur R. Groves  
 Evelyn Carolyn Grush  
 Katharine E. Hamilton  
 Francis M. Hanley  
 Portia Elizebeth Hardy  
 Herbert F. Hart  
 Ruth Eleanor Hassett  
 Irving L. Hawes  
 Alfred H. Hayes  
 Charles Wesley Hayes  
 Ethel Gertrude Headberg  
 Greta C. Hedlund  
 Eleanor Rebecca Hellmann  
 Charles Herman Hellmann  
 J. Muriel Henderson  
 Daniel Henriques  
 Rachel G. Herrig  
 John Everett Hildreth  
 Violet Florence Hill  
 Lillian Kathryn Hillman  
 F. Maxwell S. Hilton  
 Harold A. Hilton  
 Marjorie C. Hobbs  
 Frederick D. Hoitt  
 Robert W. Holmes  
 Alice C. Hopkins  
 Minot Edmund Horne  
 Beatrice Louise Hughes  
 J. Stanley Hull  
 Eleanor E. Humiston  
 Elinor May Hurley  
 Gertrude E. Hutchinson  
 Alice Irene Hunzelman  
 Walter H. Jackson  
 Emma Lou K. Johnson  
 Helen Newsome Johnson  
 Howard Chester Johnson  
 Mildred Elizabeth Johnston  
 Edgar Norman Josephson  
 Rita Helen Keating  
 Mary Evelyn Keeley  
 Edmund H. Keenan  
 Walter L. Kelson  
 Margaret E. Kendall  
 Grant B. Kent  
 Lillian May Kingston  
 Martin Augustine Kinsella  
 Edwin Russell Knox  
 Marjorie Knox  
 Bernice K. Lacount  
 Edna Susanna Larson  
 Natalie Alice Latham  
 Hazel G. Leith  
 Ora A. B. MacLeod

Thomas J. Leonard  
 Eugene Phillip LeSieur  
 Dugald Livingstone  
 Ethel Miriam Lewis  
 Anna M. R. Linardy  
 Ruth Eleanor Linderholm  
 Helen Dorothea Linehan  
 Miriam Lippincott  
 Edward Lloyd  
 Kathleen Elizabeth Lloyd  
 Mildred J. Locke  
 Esme Marqueriet Heppell Lucas  
 Gertrude Isabella C. Lyons  
 Josephine Janet D. Lyons  
 Eleanor J. Macdonald  
 Florence Mae MacGillivray  
 Mary Jeanette MacGillivray  
 John Finlay MacKenzie  
 Dorothy Frances MacKinnon  
 Sarah Catherine MacNeil  
 Elisabeth Maddison  
 William J. Mahoney  
 George Elbert Malatesta  
 Margaret Louise Manning  
 Allen L. Martin  
 George Arthur Mason  
 Louise C. Matheson  
 Inez K. McAfee  
 Dorothy Margaret McAnern  
 Lores W. McCloskey  
 V. Isabel McCobb  
 Paul McElroy  
 Daniel K. McFayden  
 John J. McKinnon  
 F. Glenna Charlene McMann  
 Edythe Julia McManus  
 Willis Allen Megathlin  
 Ellen Agnes Mekkelsen  
 Kenneth B. Miller  
 Robert Basil Mills  
 Marguerite Milner  
 James P. Mitchell  
 Helen A. Moore  
 Marion G. Moore  
 Alice Josephine Moran  
 Velma M. Morrison  
 Mildred Frances Moses  
 Velma Irene Moses  
 James F. Mullett  
 Harris F. Neil  
 Albert J. Nelson  
 Victor Harold Nelson  
 Edith Eugeanie Newcomb  
 Charles Gilbert Newcombe  
 Sara Margaret Newcombe  
 Marion A. Newell  
 G. Edward Ninde  
 Lawrence Nozzolillo  
 Frances Marie O'Brien

Genevieve Agnes O'Brien  
 Charles Brendon O'Connor  
 George A. O'Connor  
 William O'Donnell  
 Rebecca McVeigh Oliver  
 Lillian Mae Olsen  
 Christopher O'Neill  
 Ralph D. Ormes  
 Harriet May Orr  
 Ruth Jones Payrow  
 Allen Smith Perrins  
 Edward W. Peters  
 Howard A. Petrie  
 Howard Brown Phillips  
 Ruth W. Pickard  
 Marguerite Judson Pierce  
 Doris Evelyn Plummer  
 Elinor W. Powers  
 Francis W. Procum  
 John S. Queenan  
 John Henry Query  
 Charles K. Ranger  
 Dorothy M. Ranger  
 Francis Gardner Ranney  
 Mary Ransom  
 Marjorie M. Read  
 Beatrice Louise Reud  
 Dorothy Elizabeth Reud  
 W. Arthur Reynolds  
 Elizabeth Goodroe Rich  
 Ralph William Rich  
 Priscilla Ripley  
 Herbert E. Robertson  
 Rosalind Robillard  
 Anna M. Robinson  
 Harold William Robinson  
 Marion Alice Roche  
 Allene Rowe  
 Mildred A. Ryan  
 Elsie Evelyn Sandvold  
 Marston C. Sargent  
 Sarkis G. Sarkisian  
 Carl F. Saunders  
 George Saunders  
 Stefana Scavitto  
 Madelyn F. Scott  
 Dorothy G. Shaw  
 Emma Winnifred Shaw  
 Chester J. Sheerin  
 Sara Sherburne  
 Anna M. Sloane  
 Doris Bertha Simpson

J. Albert Simpson  
 Carl Norton Smith  
 Hester F. Smith  
 Margaret Frances Snell  
 Norman Dittrich Stearns  
 Constance Rose Steed  
 Robert Shaw Stetson  
 Margaret Ethel Soar  
 Esther Helen Sullivan  
 Mary Helen Sullivan  
 Richard D. Sullivan  
 Elin Alfrida Swanson  
 Raymond Milton Swift  
 Marion Elizabeth Tarr  
 Margaret B. Taylor  
 Leslie Franklin Thompson  
 Susan M. Thompson  
 Franklin B. Thurston  
 Margaret Timpe  
 Helen Marie Tolstrup  
 William Robert Trimble  
 George Theodore Truelson  
 S. Regina Truelson  
 Stanley D. Truelson  
 Willard S. Tuttle  
 Kenneth S. Ulm  
 George J. Urlwin  
 Mildred Eleanor Van Arsdalen  
 Mary Frances Vacaro  
 Helen F. Walker  
 Dorothy Muriel Ware  
 Phyllis C. Wardrobe  
 Marguerite Sarah Waterman  
 Viola Littlefield Watts  
 Georgia Frances Wade  
 Helen Elizabeth Wahlstrom  
 Julius E. Weiss  
 Doris Louise Wells  
 Verona A. Whitcomb  
 George A. Keppel White  
 Mildred Florence White  
 Rodney E. Whittemore  
 Ada Grace Whyte  
 E. Gladys Wilkins  
 Catherine Anderson Wilson  
 Sophie J. Wolf  
 Charles Ralph Worters  
 Celeste Carolyn Wood  
 Louise M. Yacubian  
 Frederick Zappini, Jr.  
 Eva Catherine Zec

Table 27. — VOCATIONAL SCHOOL GRADUATES.

Vocational School for Boys.

Herbert French	Thomas Scott
Leonard W. Hoyt	James Weir, Jr.
Charles McAlpine	

Table 28. — Organization of School Board, 1922.

School Committee.

HERBERT CHOLERTON	Chairman
WALTER I. CHAPMAN	Vice-Chairman

Members.

EX-OFFICIIS.

JOHN M. WEBSTER, Mayor	....	. . . . .	. . . . .	. 76 Boston street.
ENOCH B. ROBERTSON, President Board of Aldermen,				39 Highland road.

WARD ONE.

JULIA A. CROWLEY,	. . . . .	. 34 Pinckney street.
FRANCIS J. FITZPATRICK,	. . . . .	. 2 Austin street.

WARD TWO.

DANIEL H. BRADLEY,	. . . . .	19 Concord avenue.
CHRISTOPHER J. MULDOON,	. . . . .	88 Concord avenue.

WARD THREE.

CHARLES W. BOYER,	. . . . .	. 66 Avon street.
OSCAR W. CODDING,	. . . . .	. 59 Vinal avenue.

WARD FOUR.

KATHERINE C. COVENEY,	. . . . .	. 73 Marshall street
RICHARD L. RICE,	. . . . .	. 296½ Broadway.

WARD FIVE.

HARRY M. STOODLEY,	. . . . .	283 Highland avenue.
MINNIE S. TURNER,	. . . . .	64 Hudson street.

WARD SIX.

WALTER I. CHAPMAN,	. . . . .	18-A Central street.
WALTER FRYE TURNER,	. . . . .	15 Highland road.

WARD SEVEN.

HERBERT CHOLERTON,	. . . . .	94 College avenue.
PAUL O. CURTIS,	. . . . .	41 Mason street.

Superintendent of Schools.

CHARLES S. CLARK.

Office: City Hall Annex, Highland avenue.  
 Residence: 75 Munroe street.

The Superintendent's office will be open on school days from 8 to 5; Saturdays, 8 to 10. His office hour is 4 o'clock on school days, and 8:30 on Saturdays.

**Superintendent's office force:—**

Mary A. Clark, 42 Highland avenue.  
 Mildred A. Merrill, 26 Cambria street.  
 H. Madeline Kodad, 104 Sharon street, West Medford.  
 Marion E. Marshall, 30 Gilman street.  
 Ruth O. Elliott, 4 Lincoln place.  
 Marguerite E. Flanagan, 10 Auburn Ave.

**Board Meetings.**

January 30.	April 24.	September 25.	December 18.
February 27.	May 29.	October 30.	
March 27.	June 26.	November 27.	

**8:15 o'clock.**

**Table 28. — Organization of School Board, 1922. — Concluded.****Standing Committees.**

Note. — The member first named is chairman.

- District I. — Fitzpatrick, Crowley, Bradley.  
PRESCOTT, HANSCOM, BENNETT.
- District II. — Muldoon, Bradley, Fitzpatrick.  
KNAPP, PERRY, BAXTER.
- District III. — Boyer, Coddling, Muldoon.  
POPE, CUMMINGS.
- District IV. — Rice, Coveney, Coddling.  
EDGERLY, GLINES.
- District V. — Miss Turner, Stoodley, Coveney.  
FORSTER, BINGHAM, PROCTOR.
- District VI. — Chapman, Turner, Stoodley.  
CARR, MORSE, DURELL, BURNS, BROWN.
- District VII. — Curtis, Cholerton, Chapman.  
HIGHLAND, CUTLER, LINCOLN, LOWE.
- High School — Chairman Bradley, Stoodley, Crowley, Coddling, Coveney, Chapman, Cholerton.
- Finance — Chairman Stoodley, Fitzpatrick, Muldoon, Coddling, Rice, Chapman, Cholerton, Webster, Robertson.
- Text Books and Courses of Study — Chairman Chapman, Muldoon, Crowley, Boyer, Coveney, Miss Turner, Curtis.
- Industrial Education — Chairman Boyer, Miss Turner, Crowley, Muldoon, Rice, Turner, Curtis.
- School Accommodations — Chairman Coddling, Rice, Fitzpatrick, Bradley, Stoodley, Turner, Cholerton, Webster, Robertson.
- Teachers — Chairman Cholerton, Chapman, Fitzpatrick, Muldoon, Coddling, Rice, Miss Turner.
- Health, Physical Training and Athletics — Chairman Curtis, Bradley, Fitzpatrick, Boyer, Coveney, Stoodley, Turner.
- Rules — Chairman Miss Turner, Boyer, Crowley, Bradley, Coveney, Turner, Curtis.

TABLE 29. — TEACHERS IN SERVICE, JANUARY, 1922.

Name and Residence.		Salary.	Began Serv- ice
HIGH SCHOOL.			
Central Hill.			
John A. Avery, Head Master, 22 Dartmouth Street		\$4,100	1895
Everett W. Tuttle, Vice-Head Master, 62 Highland Avenue		2,900	1895
Frank H. Wilkins, Master, 6 Highland Avenue		2,700	1906
John L. Hayward, Master, 242 School Street		2,500	1913
Harry F. Sears, Master, 44 Orris Street, Melrose Highlands		2,700	1901
William W. Obear, Master, 86 Belmont Street		2,700	1906
George M. Hosmer, Sub-Master, 31 Adams Street		2,400	1901
Laurence A. Sprague, Sub-Master, 17 Perkins St., W. Newton		2,300	1906
John M. Jaynes, Sub-Master, 89 Oxford Street		2,300	1901
Arthur N. Small, Sub-Master, 81 Avon Street		2,300	1916
Fred W. Carrier, Sub-Master, 84 Walnut Street, Winchester		2,300	1915
Wallace S. Hall, 37 Perkins Street, West Newton		2,100	1919
Irving P. Colman, Sub-Master, Greenbush		1,900	1915
Stephen H. Mahoney, Sub-Master, 10 Oxford Street		2,300	1914
Albert O. Plantinga, Sub-Master, 83 Park Street, Melrose		2,100	1918
George E. Pearson, Sub-Master, 325 Highland Avenue		2,300	1914
Forrest S. Miller, Sub-Master, 8 Hudson Street		1,900	1920
L. Thomas DeCelles, 46 Ware Street		1,900	1919
A. Marion Merrill, Sub-Master, 2 Madison Street		2,100	1895
Helen L. Follansbee, Sub-Master, 40 Vinal Avenue		2,100	1900
Harriet E. Tuell, Assistant, 40 Vinal Avenue		1,900	1899
Elizabeth Campbell, Assistant, 39 Greenville Street		1,900	1902
A. Laura Batt, Assistant, 2 Madison Street		1,900	1895
M. Helen Teele, Assistant, 11 Jason Street, Arlington		1,900	1895
Clara A. Johnson, Assistant, 177 Central Street		1,750	1897
Blanche S. Bradford, Assistant, 163 Summer Street		1,750	1903
Grace E. W. Sprague, Assistant, 888 Mass. Avenue, Cambridge		1,750	1908
Mrs. Lucy I. Topliff, Assistant, 69 Cypress Street, Brookline		1,750	1914
Ella D. Gray, Assistant, 147 Walnut Street		1,700	1901
Grace Gatchell, Assistant, 9 Hamlet Street		1,700	1906
A. Marguerite Browne, Assistant, 27 Everett Street, Cambridge		1,750	1908
Edith L. Hurd, Assistant, 125 Central Street		1,700	1910
Esther Parmenter, Assistant, 16 Mystic Lake Drive, Arlington		1,600	1911
Annie C. Woodward, Assistant, 2 Madison Street		1,750	1906
Alice A. Todd, Assistant, 82 Munroe Street		1,650	1913
Ella W. Bowker, Assistant, 2 Hillside Avenue		1,700	1911
Florence L. McAllister, Assistant, 23 Wallace Street		1,650	1913
Laura R. Cunningham, Assistant, 62 Highland Avenue		1,650	1914
Ruth A. Davis, Assistant, 44 Benton Road		1,650	1914



TABLE 29. — Teachers in Service January, 1922. — Continued.

Name and Residence.	Salary	Began Service.
Julia A. Haley, Assistant, 88 Prospect Street	\$1,600	1913
Mary C. Smith, Assistant, 117 Prospect Street	1,650	1916
Gladys L. Swallow, Assistant, 15 Pleasant Avenue	1,600	1916
Alfreda Veazie, Assistant, 193 Linden Street, Everett	1,600	1916
Mrs. Phebe E. Mathews, Assistant, 159 Morrison Avenue	1,650	1916
E. Phoebe Abbott, Assistant, 67 Perrin Street, Roxbury	1,500	1916
Mrs. Ruth L. Card, Assistant, 62 Central Street	1,650	1913
Hene C. Ritchie, Assistant, 15 Willoughby Street	1,650	1912
Ella W. Burnham, 58 Walnut Street	1,600	1919
Mrs. Cornelia D. Pratt, 112-A Glenwood Road	1,600	1913
Bernice O. Newborg, 12 Hale Avenue, Medford	1,500	1913
Louise M. Saunders, 1 Waterhouse Street, Cambridge	1,600	1919
Gertrude W. Chaffin, 4 Copeland Terrace, Malden	1,600	1916
Mrs. Ruth L. Strand, Assistant, Central Ave., Needham Hghts.	1,550	1919
Elizabeth M. Welch, Asst., 3 Washington Av., Arlington Heights	1,600	1919
Harriet M. Bell, Assistant, 42 Orchard Street, Cambridge	1,700	1904
Dorothy E. Harvey, 61 Pennsylvania Avenue	1,500	1920
Margery Moore, 44 Benton Road	1,400	1920
Edith M. Joel, 105 Rogers Avenue	1,600	1920
Harriet C. Whitaker, 75 Walnut Street	1,600	1921
†Ruth C. MacDuffie, 30 Wadsworth Street, Allston	1,200	1921
Ruth E. Arrington, 37 Walnut Street	1,300	1921
Margaret Cochran, 34 Hancock Street, Medford	1,400	1921
Elizabeth I. Fury, 11 East Newton Street, Boston	1,400	1921
Sadie M. Lyle, 25 Lowden Avenue	1,300	1921
†Mrs. Alice Brentlinger, 43 Marion Road, Belmont	1,400	1921
*William F. Skelton, 153 Lowell Street	700	1921
*Maude F. Wheeler, 68 Warrentown Street, Boston	700	1921
Matilda C. Wright, Matron, 17 Hudson Street	1,000	1919
Mabell M. Ham, Clerk, 41 Boston Street	1,400	1906
*Wesley A. Maynard, 18 Grand View Avenue	840	1918

\*Part-time.

†Temporary teacher.

## EASTERN JUNIOR HIGH SCHOOL.

## Pearl Street.

Samuel A. Johnson, Master, 5 Gardner Terrace, Allston	\$3,100	1893
Francis J. Mahoney, Vice-Principal, 16 Parker Street	2,200	1919
Walter W. Newcombe, Sub-Master, 172 Central Street	1,900	1917
Elizabeth M. Warren, 109 Highland Avenue	1,575	1897
Sarah H. Christie, 218 South Street, Jamaica Plain	1,500	1914
Edyth M. Grimshaw, 316 Hyde Park Avenue, Jamaica Plain	1,500	1909
Pertie I. Gray, 23 Melvin Street	1,500	1917
*Edith L. Laycock, 104 Hemenway Street, Boston	1,500	1913
Elizabeth J. Mooney, 41 Vinal Avenue	1,500	1904
Catherine L. Heagney, 32 Sewall Street	1,500	1912
Mary A. Hickey, 73 Broadway	1,400	1918
Elma Isaac, 32 Richardson Street, Brighton	1,350	1918
Velma B. Strout, 36 Francesca Avenue	1,500	1913
Theresa Morrison, 174 Broadway	1,500	1912
Helen B. Ryan, 35 Columbus Avenue	1,450	1918
Mrs. Constance H. Scherer, 25 Falmouth Street, Belmont	1,500	1917
Kathinka Fessman, 1126 Boylston Street, Boston	1,650	1912
Olive E. Whittier, 218 South Street, Jamaica Plain	1,500	1918
Mrs. Amelia M. Gray, 150 Riverside Avenue, Medford	1,300	1920
†Mrs. Grace M. Dorey, 12 North Avenue, Roxbury	1,400	1921
Adela L. Balch, 223 Mountain Avenue, Arlington	1,500	1921
†Rachel M. Pratt, 50 Park Vale Avenue, Allston	1,300	1921
Doris B. Cresto, 52 Rush Street	1,400	1919
†Katherine Quigley, 580 Adams Street, E. Milton	1,500	1921

\*Leave of absence.

†Temporary teacher.

TABLE 29. — Teachers in Service January, 1922. — Continued.

Name and Residence.		Salary	Began Service.
SOUTHERN JUNIOR HIGH SCHOOL.			
Vinal Avenue.			
George M. Wadsworth, Master, Whitman		\$3,100	1891
Raymond E. Shepherd, Vice-Principal, 16 Grand View Avenue		2,200	1919
Arthur E. Gordon, Sub-Master, 116 School Street		2,000	1918
Melvin T. Carver, Sub-Master, 247 Winthrop Street, Winthrop		1,900	1917
Alice L. Davis, 40 Vinal Avenue		1,650	1895
Clara B. Sackett, 106 Summer Street		1,500	1891
Mrs. Blanche G. North, 25 Columbus Avenue		1,500	1893
Mrs. Gertrude W. Leighton, 31 Vinal Avenue		1,500	1895
Grace T. Merritt, 10 Charnwood Road		1,500	1897
Marie T. Smith-Brandt, 64 Vinal Avenue		1,500	1898
Lilla E. Mann, 208 Morrison Avenue		1,500	1902
Mrs. Mary B. Soule, 39 Walnut Street		1,500	1902
Leila L. Rand, 43 Norfolk Road, Arlington		1,500	1906
Rena S. Hezelton, 23 Preston Road		1,500	1909
Mrs. N. Theresa Hennessey, 15 Rock Avenue, Lynn		1,500	1909
Nona E. Blackwell, 45 Ibbettson Street		1,500	1906
Edith L. French, 52 Prescott Street		1,500	1912
Emma J. Kennedy, 15 Pleasant Avenue		1,500	1912
Maude M. Cunningham, 153 Highland Avenue		1,500	1913
Carrie M. Frost, 83 Browne Street, Brookline		1,500	1920
Charlotte A. Holmes, 24 Cambria Street		1,500	1899
Ada G. Macdonald, 43 Babcock Street, Brookline		1,500	1914
Anna J. Coll, 65 Newton Street		1,450	1916
Anna E. McCully, 12 Francis Street		1,450	1916
Mrs. E. Marie Kelley, 69 Chadwick Street, Bradford		1,500	1918
F. Antoinette Pratt, 31 Vinal Avenue		1,500	1918
Olive M. Brownell, 62 Simpson Avenue		1,500	1919
Ruth H. Conner, 13 Pleasant Avenue		1,500	1921
Mildred E. Blaisdell, Lowell, Mass., R. F. D. No. 1		1,500	1921
Edith V. Blood, 99 Summer Street		1,500	1921
NORTHERN JUNIOR HIGH SCHOOL.			
Sycamore Street and Evergreen Avenue.			
Frank W. Seabury, Master, 18 Winslow Avenue		\$3,100	1911
Joseph S. Hawthorne, Vice-Principal, 233 School Street		2,200	1915
Arthur J. Marchant, Sub-Master, 99 Glenwood Road		2,000	1914
Walter P. Sweet, Sub-Master, 40 Teele Avenue		1,900	1919
Mary I. Bradish, 63 Dudley Street, Medford		1,500	1899
Emma G. Blanchard, 146 Massachusetts Avenue, Boston		1,600	1902
Mrs. Mina P. Bickford, 36 Emerson Street, Medford		1,500	1903
Mary F. Mead, 22 Kidder Avenue		1,500	1905
*M. Edna Merrill, 228 Broadway		1,500	1909
Anna R. Walsh, 27 Avon Street		1,500	1914
Dorothy A. Chapin, 11 Mystic Street		1,500	1917
Ruth C. Harrington, 3 Moulton Avenue, Stoneham		1,500	1918
Mary C. Fox, 28 Linden Street		1,350	1918
Florence R. Gallagher, 16 Otis Street, Medford		1,450	1913
May B. Thompson, 120 Peterboro Street, Boston		1,500	1918
Minnie A. Holden, 29 Warren Avenue		1,500	1906
Alice M. Patterson, 108 Glenwood Road		1,400	1919
Mrs. Gladys M. Sheldon, 55 Liberty Street, Everett		1,350	1919
Annie G. Merrill, 33 Stuart Street, Everett		1,400	1919
Marie Clifford, 1648 Mass. Avenue, Cambridge		1,500	1907
Mary Donoghue, 80 Porter Road, Cambridge		1,500	1911
Grace M. Driscoll, 25 Arthur Street		1,100	1920
Katherine Briggs, 150 Arlington Street, West Medford		1,500	1921
†Mrs. Rosella Upperstrom, 33-A Hancock Street		1,400	1921
†Mrs. Delsey Ellsworth, 35 Francesca Avenue		1,400	1921
†Mrs. Marie Sweet, 39 Russell Road		1,400	1921

\*Leave of absence.

†Temporary teacher.

TABLE 29. — Teachers in Service January, 1922. — Continued.

Name and Residence.			
WESTERN JUNIOR HIGH SCHOOL		Began	
Holland Street.		Salary	Service.
Arthur L. Doe, Master, 27 Spruce Street, Malden		\$3,100	1896
James S. Thistle, Vice-Principal, 26 Packard Avenue		2,200	1917
John J. McLaughlin, Sub-Master, 84 Inman Street, Cambridge		2,000	1916
Ralph E. Farnsworth, Sub-Master, 26 Glenwood Ave., Camb.		1,900	1918
Prescott E. Whitfield, 33 Walnut Street		1,500	1921
Sarah E. Pray, 58 Liberty Avenue		1,500	1877
Clara B. Parkhurst, 146 Highland Avenue		1,500	1889
Flora A. Burgess, 3 Crescent Hill Avenue, Arlington		1,500	1894
*Alice S. Hall, 51 Avon Street		1,500	1896
Edith F. Hersey, 287 Medford Street		1,500	1899
Annie G. Smith, 59 Maple Street, Malden		1,500	1901
Mary L. Bryant, 41 Mason Street		1,500	1903
Florence M. Hopkins, 288 Mass. Avenue, Arlington		1,500	1907
Elsie M. Ross, 120 Peterboro Street, Boston		1,500	1908
Isabelle M. Brunton, 33 Walnut Street		1,500	1910
Katherine A. Breen, 7 Cambria Street		1,500	1912
L. Alice Grady, 19 Billings Avenue, Medford		1,500	1912
Elizabeth R. Henderson, 152 Curtis Avenue		1,500	1912
Marion F. Orne, 43 Fairmount Avenue		1,500	1912
Helen I. Stearns, 106 College Avenue		1,500	1916
Mrs. Mae W. Conant, 25 Crescent Hill Ave., Arlington Hghts.		1,500	1917
Marcella M. Garrick, 295 Lowell Street		1,350	1917
Blanche Preston, 84 Packard Avenue		1,500	1917
Miriam E. Priest, 6 Hudson Street		1,500	1917
Geneva C. Tobey, 43 Chelsea Street, Everett		1,400	1917
Mabel C. Whitaker, 75 Walnut Street		1,500	1917
Jessie M. Howard, 104 Hemenway Street, Boston		1,300	1919
Helen A. Moran, 483 Medford Street		1,350	1919
Emma M. Damon, 170 Central Street		1,500	1908
Catherine E. Giles, 5 Bradley Avenue, Wellington		1,350	1918
Mrs. Vernie T. Neily, 96 Heath Street		1,500	1916
Mrs. Augusta H. Bergin, 652 Huntington Avenue, Boston		1,500	1920
Ellen L. Bellamy, 41 Bay State Avenue		1,500	1921
Helen M. Stone, 146 Curtis Street		1,500	1921
†Mrs. Elsie B. Fiske, 17 Russell Road		1,300	1921
Ethel M. Park, 48 Electric Avenue		1,500	1916
Eleanor Campbell, Assistant, 169 Highland Avenue		600	1921

\*Leave of absence.

†Temporary teacher.

TABLE 29. — Teachers in Service January, 1922. — Continued.

Name and Residence.		Salary	Began Service.
VOCATIONAL SCHOOL FOR BOYS (Day).			
Davis Building, Tufts Street.			
	Harry L. Jones, Principal, 137 Powder House Blvd.	\$3,300	1896
	Nehemiah E. Gillespie, 28 Worcester Sq., Boston	2,100	1911
	Charles A. Kirkpatrick, 27 Sewall Street	2,000	1913
	H. Ralph Aubin, 6 Oxford Street	2,100	1917
	Roy R. King, 18 Landers Street	1,900	1918
	Phillip J. Heffernan, 356-A Broadway	1,800	1918
	Benjamin C. Bowman, 102 Walnut Street	1,600	1919
	Edward A. Mason, 63 Tonawanda St., Dorchester	1,900	1920
	Percy A. Brigham, 22 Madison Street	2,100	1920
	Mrs. Ethel M. Smith, Clerk, 20 Langmaid Avenue	\$16.00 per week	1921
INDEPENDENT HOUSEHOLD ARTS SCHOOL.			
High School Building.			
	Mary Henleigh Brown, Director, 162 Highland Ave.,	\$2,200	1911
CONTINUATION SCHOOL.			
High School Building.			
	Everett W. Ireland, Principal, 57 Packard Avenue	\$2,800	1920
	Lawrence E. Landahl, 99 Summer Street	1,900	1920
	Kells S. Boland, 1200 Mass. Avenue Cambridge	1,600	1920
	Estelle Crowe, 55 Cedar Street	1,100	1920
	Martha S. Walker, 80 Brookside Ave., Newtonville	1,000	1921
(WILLIAM H.) PRESCOTT SCHOOL			
Grade. Pearl and Myrtle Streets.			
	Samuel A. Johnson, Master, 5 Gardner Ter., Allston	.....	1893
4.	Clara Taylor, 36 Flint Street	\$1,500	1871
3.	Elizabeth L. Marvin, 17 Summit Street	1,500	1898
3.	*Mrs. Alice R. Woodward, 20 Indiana Avenue	1,200	1921
2.	Louise E. Pratt, 11 Prospect Hill Avenue	1,500	1883
2.	Mrs. Grace E. Allen, 271 Summer Street	1,350	1919
1.	Jeannette M. Hannabell, 44 Benton Road	1,500	1917
1.	Dorothea Shay, 68 Mt. Pleasant Street	1,100	1920
SANFORD HANSCOM SCHOOL.			
Webster and Rush Streets.			
	Florence A. Chaney, Master, 49 Boston Street	.....	1919
4.	Mrs. Agnes M. Travis, 66 Bartlett Street, Malden	\$1,650	1908
4.	Maude A. Nichols, 166 Highland Avenue	1,500	1906
4.	Jennie M. Twiss, 67 Berkeley Street	1,500	1903
3.	*Frances E. Robinson, 91 Glen Street	1,500	1908
3.	Mrs. Nellie W. McPheters, 163 Summer Street	1,500	1914
2.	Martha L. Littlefield, 163 Summer Street	1,500	1897
2.	Ethel H. Werner, 59 Cedar Street	1,200	1919
2.	Florence M. Shaw, 58 Central Street	1,500	1909
1.	Marion A. Viets, 122 Dale Street, Waltham	1,500	1912
1.	Alice M. Saben, 11 Prospect Hill Avenue	1,500	1903
Kind'n.	Elizabeth J. Baker, 105 Pinckney Street, Boston	1,400	1907
Asst.	Mrs. Dorothy C. Huddy, 41 Hillside Ter., Belmont	1,200	1921

\*Leave of absence.

TABLE 29. — Teachers in Service January, 1922. — Continued.

Name and Residence.		Salary	Began Service.
Grade	Poplar and Maple Streets.		
	John Sherburne Emerson, Master, 3 Preston Road	\$3,000	1894
5.	Kate B. Gifford, 347 Mass. Avenue, Lexington	1,650	1902
4.	Eleanor W. Nolan, 169 Highland Avenue	1,500	1909
4, 3.	Eliza I. Patterson, 42 Mt. Vernon Street	1,400	1919
3.	Mrs. Nettie L. Fay, 15 Pleasant Avenue	1,500	1901
3, 2.	*Mrs. Katharine D. Millen, 41 Chetwynd Road	1,400	1920
2.	*Mrs. E. Laurette Johnston, 25 Tufts Street	1,200	1921
1.	Mrs. Amy F. Woodbury, 183 College Avenue	1,500	1917
1.	Alice M. Hayes, 81 Benton Road	1,500	1913
1.	Mrs. Cora B. Gowen, 87 St. Stephen Street, Boston	1,500	1906
1.	*Mrs. Almira T. Jones, 24 Cameron ave., N. Cambridge	1,200	1921
Kind'n.	Helen E. Harrington, 1675 Mass. Ave., Cambridge	1,400	1912
Asst.	Mary B. White, 1061 Broadway	900	1927

\*Temporary teacher.

## GEORGE L. BAXTER SCHOOL.

Bolton Street.

	Francis A. Ryan, Master, 99 Raymond Avenue	.....	1913
4.	Mary G. Blackwell, 45 Ibbetson Street	\$1,600	1900
3.	Margaret M. Breen, 461 Somerville Avenue	1,500	1919
2.	Sue A. Fitzpatrick, 451-A Somerville Avenue	1,500	1912
1.	Maria D. McLeod, 78 Larchwood Drive, Cambridge	1,500	1906
Kind'n.	Eleanor A. Connor, 86 Belmont Street	1,400	1903
Asst.			

## OREN S. KNAPP SCHOOL.

Concord Avenue.

	Francis A. Ryan, Master, 99 Raymond Avenue	\$3,000	1913
6.	Mrs. Clara B. Donlon, Ayer	1,650	1914
6.	Winifred I. Macdonald, 43 Babcock Street, Brookline	1,500	1917
6.	Mary T. McCarthy, 246 School Street	1,350	1919
5.	Etta R. Holden, 29 Warren Avenue	1,500	1908
5.	Ellen C. Moynihan, 67 Avon Street	1,500	1919
4.	Eleanor M. Lundgren, 93 Lowden Avenue	1,450	1919
3.	Agnes C. Riley, 451 Somerville Avenue	1,450	1918
2.	Alice A. Tassinari, 94 Beacon Street	1,350	1919
1.	M. Edith Callahan, Woburn	1,500	1911
1.	*Mrs. Evelyn P. Hansen, 143 Elm Street	1,200	1920

\*Temporary teacher.

## ALBION A. PERRY SCHOOL.

Washington Street, near Dane Street.

	Francis A. Ryan, Master, 99 Raymond Avenue	.....	1919
5.	Catherine E. Sweeney, 284 Lowell Street	\$1,600	1901
4.	Mary A. Mullin, Canton	1,500	1910
3.	Irene Vincent, 47 Vinal Avenue	1,500	1903
2.	Mrs. Sarah E. Murphy, 87 Bristol Road	1,500	1906
1.	Grace R. O'Neil, 347 Washington Street	1,500	1913

TABLE 29. — Teachers in Service January, 1922. — Continued.

Name and Residence.		Salary	Began Service.
CHARLES G. POPE SCHOOL.			
Washington and Boston Streets.			
	Florence A. Chaney, Master, 49 Boston Street	\$2,700	1892
6	Alice I. Norcross, 90 Russell Avenue, Watertown	1,650	1885
6.	Harriet M. Clark, 10 Vernon Street, West Medford	1,500	1893
6.	M. Abbie Tarbett, 11 Washington Street, Stoneham	1,500	1966
5.	Eva E. Perkins, 16 Buckminster Street, Allston	1,500	1911
5.	Helen V. Hurley, 15 Colonial Road, Brighton	1,300	1921
4.	Lizzie W. Parkhurst, 146 Highland Avenue	1,500	1885
4, 3.	Annie G. Sheridan, 57 Stanley Avenue, Medford	1,500	1886
3, 2.	M. Katherine Davis, 243-A Highland Avenue	1,500	1904
2.	*Florence E. Locke, 25 Highland Avenue, Cambridge	1,500	1899
2.	Eunice S. Higgins, 25 Berkeley Street	1,000	1921
1.	Alice B. Frye, 12 Champa Avenue, Malden	1,500	1904
1.	†Mrs. Vera M. Barrows, 33 Russell Road	1,200	1921

\*Leave of absence.

†Temporary Teacher.

## (JOHN A.) CUMMINGS SCHOOL.

School Street, near Highland Avenue.

	Charles G. Ham, Master, Watertown	.....	1919
4.	Fannie L. Gwynne, 65 School Street	\$1,600	1886
3.	Katherine M. Fox, 150 Franklin Street, Stoneham	1,500	1896
2.	Elizabeth L. Hersey, 96 Oxford Street	1,500	1896
1.	Mrs. Stella M. Hadley, 11 Greene Street	1,500	1914
Asst.	Elvira Badaracco, 1874 Beacon Street, Brookline	600	1921

## (JOHN G.) EDGERLY SCHOOL.

\*Grade. Cross and Bonair Streets.

	Charles E. Brainard, Master, 82 Munroe Street	\$3,000	1883
6.	Edith M. Snell, 4 Vine Street, Melrose	1,650	1900
6.	Annie L. Dimpsey, Hotel Woodbridge	1,500	1891
6.	Mary E. Richardson, 26 Oxford Street	1,500	1893
6.	Isabelle M. Gray, 25 Webster Street	1,500	1897
5.	Mabel C. Mansfield, 26 Oxford Street	1,500	1892
5.	Berta M. Burnett, 51 Fresh Pond Parkway, Cambridge	1,500	1915
5.	G. Hortense Pentecost, 157 Walnut Street	1,500	1905
5.	Myrtle M. Irwin, 41 Putnam Street	1,400	1916
4.	Mrs. Louise S. Weare, 65 Hancock Street, Boston	1,500	1896
3.	Lillian Nealley, 25 Indiana Avenue	1,500	1882
2.	Alice W. Cunningham, 62 Highland Avenue	1,500	1901
1.	Martha M. Power, 37 Gleason St., West Medford	1,500	1890
Asst.	Edna F. Scriven, 108 Summer Street	900	1920

## JACOB T. GLINES SCHOOL.

Jaques Street, near Grant Street.

	Charles E. Brainard, Master, 82 Munroe Street	.....	1889
6.	Margaret A. Orr, 146 Massachusetts Ave., Boston	\$1,650	1890
6.	Harriet F. Ward, Weymouth	1,500	1895
5.	Alice C. Blodgett, 104 Hemenway Street, Boston	1,500	1917
5.	Monira C. Gregory, 42 Mt. Vernon Street	1,300	1921
4.	Laura M. Flynn, 57 Franklin Street	1,100	1920
4.	Mrs. Carrie Armitage, 57 Madison Street	1,500	1899
3.	Florence E. Baxter, 42 Highland Avenue	1,500	1891
3.	Corra J. Demond, 146 Mass. Avenue, Boston	1,500	1900
2.	Elizabeth C. Sullivan, 74 Ossipee Road	1,100	1920
2.	Florence W. Schroeder, 268 Summer Street	1,400	1915
2, 1.	Editha A. Sharkey, 7 Wesley Park	1,350	1919
1.	Helen P. Colley, 872 Broadway	1,300	1921
1.	Isabel J. Tift, 109 Highland Avenue	1,500	1892
Kind'n.	Ida M. Kane, 28 Fellsway West	1,400	1905
Asst.	Marjorie Gustin, 3 Virginia Street	900	1921

TABLE 29. — Teachers in Service January, 1922. — Continued.

		Name and Residence.			
		(CHARLES) FORSTER SCHOOL.			
		Sycamore Street and Evergreen Avenue		Began Service.	
Grade			Salary		
		Frank W. Seabury, Master, 18 Winslow Avenue	.....		1911
6, 5.		Elizabeth F. Clement, 29 Kidder Avenue	\$1,500		1884
5, 4.		Annie S. Gage, 32 Marshall Street	1,500		1881
3, 2.		Carrie T. Lincoln, 65 Ashland Street, Medford	1,500		1892
2, 1.		Grace Shorey, 23 Forster Street	1,500		1892
		(NORMAN W.) BINGHAM SCHOOL.			
		Lowell Street, near Vernon Street.			
		Harry F. Hathaway, Master, 29 Albion Street	\$3,000		1890
6.		Elizabeth J. O'Neil, 82 Benton Road	1,650		1894
6, 5.		Jane Batson, 103 Clifton Street, Malden	1,500		1906
6.		Anna G. Molloy, 82 Benton Road	1,300		1921
5.		Clara L. Griffiths, 39 Ames Street	1,500		1902
4.		Anna R. Canfield, 205 Cedar Street	1,450		1914
4.		Alice A. Griffiths, 39 Ames Street	1,450		1920
4, 3.		Barbara E. Drummey, 43 Short Street, Marlboro	1,450		1918
3.		Lillian F. Commins, 16 Buena Vista Park, Cambridge	1,400		1914
3.		Lynda V. Merrill, 26 Brastow Avenue	1,500		1912
2.		G. Marion Lovering, 27 Flint Street	1,500		1913
2.		M. Gertrude McCarthy, 36 Brastow Avenue	1,300		1917
2, 1.		Ethel F. Rudd, 46-A Franklin Street	1,000		1921
1.		Mabel E. Mansir, 77 Albion Street	1,500		1894
1.		Frances Fisher, 176 Williams Avenue, E. Lynn	1,500		1921
Kind'n.		M. Regina Desmond, 3 Oak Street, Charlestown	1,250		1918
Asst.		Marguerite Driscoll, 396 Medford Street	1,000		1921
		MARTIN W. CARR SCHOOL.			
		Atherton Street.			
		Chas. G. Ham, Master, 20 Washburn St., Watertown	\$3,000		1898
6.		Eva S. Bent, 6 Steeves Circle	1,650		1915
6.		Susie L. Luce, 22 Francesca Avenue	1,500		1891
6, 5.		Mrs. Hazel F. Quinn, 981 Main Street, Winchester	1,500		1915
6.		Mrs. Helen M. Mason, 62 Ibbetson Street	1,350		1920
5.		Lillian E. Haskell, 41 Putnam Street	1,500		1913
5.		Elizabeth S. Foster, 53 Laurel Street	1,500		1895
5.		Dorothy Lundgren, 93 Lowden Avenue	1,350		1915
4.		Alice M. Cumming, 117 School Street	1,350		1917
4.		Ada C. Tassinari, 94 Beacon Street	1,450		1919
3.		Margaret M. Brennan, 30 School Street	1,350		1917
3.		Bessie I. Berry, 38 Wyllis Avenue, Everett	1,500		1915
2.		Annie B. Russell, 14 Kidder Avenue	1,500		1901
2.		Mary E. Flanley, 9 Avon Street, Wakefield	1,450		1915
1.		Frances E. Welch, 303 Highland Avenue	1,500		1908
1.		Mabel R. Ingham, 62 Central Street	1,400		1912
		(ENOCH R.) MORSE SCHOOL.			
		Summer and Craigie Streets.			
		Mina J. Wendell, Master, 211-A Summer Street	\$3,000		1882
6.		Mrs. Harriette C. Hamilton, 36 Meacham Road	1,650		1900
5.		Lennie W. Bartlett, 49 Laurel Street	1,500		1893
5.		Blanche E. Thompson, 33 Hudson Street	1,500		1906
4.		*Mrs. Sarah K. Lake, 199 Prospect Street, Cambridge	1,400		1921
4, 3.		Eva A. Wilson, 153 Lowell Street	1,400		1917
3.		Mrs. Agnes C. Rice, 34 Highland Avenue	1,500		1909
2.		*Mrs. Hazel D. Snow, 8 Mt. Vernon Street	1,200		1921
2.		Lena Munroe, 211-A Summer Street	1,500		1913
1.		Mrs. Helen T. Smith, 43 Paulina Street	1,500		1912
1.		Louise F. Deady, 84 Bay State Avenue	1,300		1917
Kind'n.		Gertrude Prichard, 5 Webster Street	1,200		1920
Asst.		Elizabeth White, 6 Boxford Street, Lawrence	900		1921

\*Temporary Teacher.

TABLE 29. — Teachers in Service January, 1922. — Continued.

Name and Residence.			Began
Grade.		Salary.	Serv- ice.
GEORGE O. PROCTOR SCHOOL.			
Hudson Street.			
	Harry F. Hathaway, Master, 29 Albion Street	.....	1890
6.	Nora F. Byard, 27 College Avenue	\$1,650	1884
6, 5.	Alice G. Hosmer, 42 Boston Street	1,500	1906
5, 4.	Ethel F. Morang, 18 Curtis Avenue	1,350	1920
4.	Ella P. McLeod, 163 Summer Street	1,500	1888
3.	Edith L. Hunnewell, 41 Mason Street	1,500	1894
2.	Mary S. Richardson, 347 Boston Avenue, Medford	1,500	1906
1.	Lucia Alger, 163 Summer Street	1,500	1889
GEORGE W. DURELL SCHOOL.			
Beacon and Kent Streets.			
	Charles G. Ham, Master, Watertown	.....	1898
4.	Abigail P. Hazleton, 14 Billingham Street	\$1,600	1902
3.	Grace E. Packard, 12 Carlisle Street, Roxbury	1,500	1912
2.	Mary Winslow, 23 Hall Street	1,500	1887
1.	Alice M. Dicker, 82 Marion Street, East Boston	1,500	1912
MARK F. BURNS SCHOOL			
Cherry Street, near Highland Avenue.			
	Mina J. Wendell, Master, 211-A Summer Street	.....	1882
4.	Mrs. Margaret D. Quarrie, 21 Bay State Avenue	\$1,650	1909
4.	Lizzie E. Hill, 121 St. Stephen Street, Boston	1,500	1890
3.	Annie L. Brown, 4 Saginaw Avenue, No. Camb.	1,500	1885
3.	Margaret Beattie, 401 Washington Street	1,450	1914
2.	Mary E. Lacy, 63 Cherry Street	1,500	1890
2.	Ardelle Abbott, 71 Craigie Street	1,500	1896
1.	Alice, E. Morang, 18 Curtis Avenue	1,500	1893
1.	Ruth E. Andrews, 2 Medina Building	1,500	1917
BENJAMIN G. BROWN SCHOOL.			
Willow Avenue and Josephine Avenue.			
	Geo. I. Bowden, Master, 92 Monument St., W. Med.	\$3,000	1908
6.	Mrs. Maud A. Bottomley, 58 Glenville Ave., Allston	1,650	1918
5.	Mary T. Ford, 32 Central Road	1,500	1911
5.	Annie Sanburn, 11 East Newton St., Boston	1,500	1906
4.	Anna N. Johnson, 33 Everett Avenue	1,500	1913
4.	Martha R. Taylor, 26 Simpson Avenue	1,500	1914
3.	Helen L. Galvin, 1681 Beacon St., Brookline	1,500	1903
2.	Alice M. Dorman, 159 Morrison Avenue	1,500	1903
2.	Mrs. Grace H. Bliss, 33 Whitfield Road	1,500	1900
1.	Mrs. Bessie T. MacCutcheon, 72 Mt. Vernon Street	1,400	1915
1.	Olivia H. Norcross, Wilmington	1,500	1914
HIGHLAND SCHOOL.			
Highland Avenue and Grove Street.			
	Harlan P. Knight, Master, 22 Hamilton Road	.....	1897
6.	Grace M. Clark, 10 Vernon Street, West Medford	\$1,650	1898
6.	Mary H. Joyce, 42 Orchard Street, Cambridge	1,500	1891
6.	Eva M. Barrows, 1 Glover Circle	1,500	1903
6.	Marion Allen, 74 Collins Street, Danvers	1,500	1911
5.	Catherine A. Burden, 48 Kidder Avenue	1,500	1902
5.	Hazel M. Stone, 12 Henry Avenue	1,400	1919
5.	Beatrice Waterhouse, 22 Kidder Avenue	1,500	1921
5.	Marion L. Holmes, 1200 Mass. Avenue, Camb.	1,300	1921



TABLE 29. — Teachers in Service January, 1922. — Continued.

Name and Residence.		Salary.	Began Service.
S. NEWTON CUTLER SCHOOL.			
Powder House Boulevard, near Raymond Avenue.			
Grade.		Salary.	Began Service.
	Harlan P. Knight, Master, 22 Hamilton Road	\$3,000	1897
6.	Bernice J. Andrews, 10 Locke Street	1,650	1914
6.	Mrs. Edith M. Thornquist, 49 Curtis Avenue	1,500	1906
6.	Ella H. Bucknam, 80 Montgomery Street, Boston	1,500	1897
6.	Mrs. Mabel T. Totman, 17 Pleasant Avenue	1,500	1893
5.	Mildred A. Whitman, 16 Chester Street, Danvers	1,500	1920
5.	Bessie J. Baker, 19 Mills Street, Malden	1,500	1905
5.	Mabel Worcester, 24 Brastow Avenue	1,350	1919
5.	Alice A. Libbey, 20 Chandler Street	1,350	1919
4.	Mrs. Elva A. Cutler, 36 Powder House B'ld.	1,500	1911
4.	Mrs. M. Eunice Byrne, 6 Myrtle Street, Winchester	1,500	1912
4.	Mrs. Katie L. Harmon, 1092 Broadway	1,450	1916
3.	Mrs. Elsie M. Guthrie, 50 Bromfield Road	1,500	1919
3.	E. Mildred Milner, 2 Billingham Street	1,350	1920
2.	Almena J. Mansir, 77 Albion Street	1,500	1899
3, 2.	Mrs. Nettie M. Humiston, 43 Fairmount Avenue	1,350	1920
2.	Stella Bucknam, 319 Highland Avenue	1,100	1917
1.	*Annie H. Hall, 1092 Broadway	1,500	1906
1.	Mary L. McKenna, 294 Lowell Street	1,400	1915
1.	Eleanor E. Waldron, 135 Powder House Blvd.	1,100	1919
Kind'n.	Mrs. Dorothea G. Lamb, 20 Curtis Street	1,350	1921
Asst.	Ruth S. Coldwell, 29 Pearson Road	1,100	1921

\*Leave of absence.

## LINCOLN SCHOOL.

Broadway, near Teele Square.

	Harlan P. Knight, Master, 22 Hamilton Road	.....	1897
3.	Eliza H. Lunt, 50 Curtis Street	\$1,600	1889
4.	Mrs. Lillian M. Wentworth, 248 Highland Avenue	1,500	1911
2.	Olevia M. Woods, 116 Powder House Boulevard	1,500	1908
1.	Hortense F. Small, 91 Electric Avenue	1,500	1912

## MARTHA PERRY LOWE SCHOOL.

Morrison Avenue, near Grove Street.

	George I. Bowden, Master, 92 Monument St., W. Med.	.....	1908
4.	May E. Small, 104 Orchard Street	\$1,650	1900
4.	Stella M. Holland, 34 Francesca Avenue	1,500	1903
3.	Maude C. Valentine, 1098 Broadway	1,500	1901
3.	Mrs. Jane M. Taaffe, 159 Morrison Avenue	1,500	1888
2.	Katherine E. Hourahan, 94 College Avenue	1,500	1892
2.	Clara G. Hegan, 100 School Street	1,500	1897
1.	Martha A. Jencks, 205 Morrison Avenue	1,500	1898
1.	Octavia A. Stewart, 15 Kenwood Street	1,500	1917

## EVENING SCHOOL PRINCIPALS.

Everett W. Tuttle, High	\$7.00
John S. Emerson, Bell	6.00
Charles E. Brainard, Highland	6.00

## CADET TEACHERS.

Rosa Aberle, 49 Mystic Avenue	\$600	1921
Emily Higgins, 25 Berkeley Street	600	1921
E. Bella Weisman, 17-A Melvin Street	600	1921
Sarah Wolfe, 121 Morrison Avenue	600	1921
Helen C. Jackson, 645 Fellsway, Medford	600	1921

TABLE 29. — Teachers in Service January, 1922. — Continued.

SUPERVISORS AND SPECIAL TEACHERS.			Began
		Music.	
Grade		Salary	Service.
12, 7.	James P. McVey, 29 Hammond Street, Cambridge	\$2,500	1915
6, 1.	Mrs. Charlotte D. Lawton, 121 St. Stephen St., Boston	1,900	1898
		Drawing.	
6, 1.	Clara M. Gale, 21 Willoughby Street	\$1,900	1911
		Sewing.	
	Mary H. Brown, Supervisor, 162 Highland Ave.	*\$200	1913
6, 5.	Mary L. Boyd, 74 Heath Street	1,500	1888
6, 5.	Mrs. Emma J. Ellis, 54 Marshall Street	1,500	1900
‡6, 5.	Lucy Dorr, 37-A Central Street	1,500	1919
		Penmanship.	
9, 1.	Ruth L. Whitehouse, 2 Medina Building	\$1,700	1915
		Manual Training.	
	Harry L. Jones, Supervisor, 137 Pow. House Blvd.	‡\$200	1911
		Physical Instruction.	
‡12, 1.	Ernst Hermann, 12 Columbus place, West Newton	\$1,550	1914
12, 7.	Arthur R. Ayer, 50 Vinal Avenue	2,500	1921
12, 1.	Alma Porter, 43 Ossipee Road	1,450	1918
		Atypical.	
	Mary A. Holt, 13 Pleasant Avenue	\$1,550	1910
	Mrs. Bertha M. Morton, 62 Highland Avenue	1,550	1913
	Julia M. Riordan, 165 Albion Street	1,450	1914
		Supervisor School Gardens.	
	‡William B. Moore, West Peabody	\$1,050	1919

\*Additional to salary as Director of Household Arts Courses.

‡Additional to salary as Principal of Boys' Vocational School.

‡Part time.

TABLE 30. — OFFICERS, ETC., IN SERVICE JANUARY, 1922.

Name and Address.		Salary
SUPERINTENDENT AND SECRETARY.		
Charles S. Clark, 75 Munroe Street		\$5,000
CLERKS.		
Mary A. Clark, 42 Highland Avenue		\$1,400
Mildred A. Merrill, 26 Cambria Street		\$1,250
H. Madeline Kodad, 104 Sharon Street, West Medford		1,150
Marion E. Marshall, 30 Gilman Street		\$17.50 per week
Ruth O. Elliott, 4 Lincoln Place		15.00 per week
Marguerite E. Flanagan, 10 Auburn Avenue		15.00 per week
ATTENDANCE OFFICER.		
Benjamin R. Jones, 25 Loring Street		\$1,800

TABLE 31.—SCHOOL JANITORS, JANUARY, 1922.

School.	Name.	Residence.	Weekly Salary
High School, assistant	Jeremiah M. Brennan	482 Medford St.	\$26.00
High School, assistant	John N. Quirk	202 Somerville Ave.	25.00
High School, assistant	Joseph McCormack	206 Washington St.	25.00
High School, assistant	Charles Hoyt	18 Trull St.	30.00
High School, assistant	Thomas G. Pullen	6 Madison St.	25.00
Eastern Junior High	James J. Quirk	216-B Medford St.	27.50
Prescott	Thomas E. Dickinson	5 Berkeley St.	28.50
Hanscom	Charles F. Rose	15 Brastow Ave.	26.50
Boys' Vocational	Charles B. Kelley	25 Clark St.	26.00
Bennett	Michael Mullaney	Greene St.	28.00
Baxter	Jeremiah Sullivan	60 Newton St.	24.00
Knapp	Maurice T. Mullins	13 Fremont Ave.	28.50
Perry	Dan'l E. Cunningham	15 Leland St.	24.00
Pope	John J. Kilty	9 Morton St.	28.00
Southern Junior High	William Meskill	53 Partridge Ave.	30.00
Southern Junior High	Nicholas J. Lacey	327 Washington St.	30.00
Cummings	Lewis G. Keene	1 Prescott St.	22.00
Edgerly	Charles P. Horton	26 Everett Ave.	28.00
Glines	Roy C. Burckes	20 Jacques St.	29.00
Forster	George W. Coombs	216 Pearl St.	28.00
Northern Junior High	Michael A. Mullin	16 Bowdoin St.	27.50
Bingham	John F. O'Brien	335 Lowell St.	31.00
Carr	John H. Lane	5-A Belmont St.	34.00
Morse	John W. Cremen	69 Oxford St.	28.50
Proctor	James F. Flynn	31 Linden St.	25.50
Durell	Ellsworth C. Lundgren	93 Lowden Ave.	22.00
Burns	Charles J. Elkins	14 Holyoke Road	25.59
Brown	James J. Cooper	105 Willow Ave.	26.50
Highland	E. Parker Cook	103 Willow Ave.	28.00
Hodgkins	George A. Givan	17 Henry Ave.	29.00
Western Junior High	James T. Eddy	34 Wallace St.	34.00
Cutler	Daniel Campbell	22 Barton St.	28.00
Cutler	Walter F. Burns	23 Avon St.	25.00
Lincoln	*Thomas F. O'Day	134 Lowell St.	22.00
Lowe	Frank H. Flag	22 Clyde St.	25.50

\*Leave of absence.

## PUBLIC LIBRARY.

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### BOARD OF TRUSTEES.

THOMAS M. DURELL, M. D., President.

J. FRANK WELLINGTON, Vice-President.

FREDERICK W. PARKER.

HERBERT E. BUFFUM, M. D.

WILLIAM L. BARBER.

GILES W. BRYANT, M. D.

CHARLES L. NOYES, D. D.

DAVID H. FULTON.

FRANK M. BARNARD

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### COMMITTEES.

#### On Administration.

The President, Messrs. Wellington, Parker, Noyes, Buffum and Fulton.

#### On Books and Cataloguing.

The President, Messrs. Barber, Buffum, Bryant and Barnard.

#### On Buildings and Property.

The President and the Vice-President.

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#### Secretary of the Board.

GEORGE H. EVANS.

**ORGANIZATION OF LIBRARY AND STAFF PERSONNEL.**

December 31, 1921.

**GEORGE HILL EVANS, Librarian.****NELLIE M. WHIPPLE, Assistant Librarian.****VIVIAN J. MORSE, Executive Assistant.****CENTRAL LIBRARY AND LIBRARIAN'S OFFICE.**

Highland Avenue and Walnut Street.

**GRADED SERVICE.****Department Heads and Special Positions.****CORA B. EAMES, Reference Librarian and Second Assistant.**  
\_\_\_\_\_ Chief Cataloguer.**CLARA S. HAWES, Temporary Cataloguer.****EDNA C. WOODRURY, High School Librarian.****GLADYS B. HASTINGS, Children's Librarian.****MARY S. WOODMAN, Reviewer and Classifier.****MYRTLE NICHOLSON, Supervisor of Periodicals and Binding.**

\_\_\_\_\_ Librarian of Graded and Junior High Schools.

**Senior Assistants.**

\_\_\_\_\_ Desk Chief

\_\_\_\_\_ Assistant Cataloguer

**LUCY W. HARRIS, Graded and Junior High Schools.****ORPHA B. MATHESON, Circulation Department.****KATHERINE I. EATON, Circulation Department.****Junior Assistants.****ELEANOR A. RANDALL, Children's Room.****ELEANOR M. DEAN, Circulation Department.****MARION J. MESERVE, Circulation Department.****UNGRADED SERVICE.****BERNICE L. WATT, Catalogue Department.****RUTH HAYES, Catalogue Department.****LILLIAN M. GOULD, Circulation Department.****Attendants on Part Time.****ARTHUR HAYES****WILMOT W. JONES****RALPH H. HATFIELD****MYRTLE I. MINZNER**

**WEST SOMERVILLE BRANCH.**

Established 1909.  
40 College Avenue.

**GRADED SERVICE.**

**ESTHER M. MAYHEW, Branch Librarian.**  
**MABEL E. BUNKER, 1st Assistant.**

**Senior Assistants.**

**RUTH L. SWETT, Children's Librarian.**  
**EDNA L. HARTWELL, Circulation Department.**

**Junior Assistant.**

**MURIEL STOWELL, Circulation Department.**

**UNGRADED SERVICE.**

———— Page

**Attendants on Part Time.**

**NATALIE C. HAILWOOD**  
**MARSTON C. SARGENT**

**RICHARD J. WALSH**  
**GRACE FIGVED**

**EAST SOMERVILLE BRANCH.**

Established 1912.  
Broadway and Illinois Avenue.

**GRADED SERVICE.**

**DOROTHY B. SPEAR, Acting Branch Librarian.**

**Senior Assistants.**

**DOROTHY S. BAMFORD, 1st Assistant.**  
**DOROTHY H. TERRY, Children's Librarian.**

**Junior Assistant.**

———— Circulation Department.

**UNGRADED SERVICE.****Attendants on Part Time.**

**GERTRUDE L. MCGLINCHY**  
**AUDRY S. MERROW**

**ALICE WILLIAMS**

UNION SQUARE BRANCH.

Established 1912.

Washington Street and Bonner Avenue.

GRADED SERVICE.

ALICE G. WORTHEN, Branch Librarian.

Senior Assistants.

MARGUERITE C. KELLY, 1st Assistant.  
————— Children's Librarian

Junior Assistant.

————— Circulation Department.

UNGRADED SERVICE.

Attendants on Part Time.

GASPERO ALBANO  
DOROTHY JONES  
ELSIE L. KNOX

LEOLA STROUT  
FANNIE SPIVACK  
HELEN G. POTTER

MEMBERS OF THE TRAINING CLASS.

ELEANOR A. ATHERTON  
MILDRED A. BOWLEY  
IRMA TRAPHAGEN

LULU DAVIS  
ALICE W. HAMILTON

NOTE: For changes in staff personnel during the year see Librarian's Report.

### Report of the Trustees.

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To the Honorable, the Mayor, and the Board of Aldermen of the  
City of Somerville:

Gentlemen: The forty-ninth annual report of the trustees  
of the public library is herewith respectfully submitted; being  
the report of the librarian and tables of statistics of operation.

Very respectfully,

The Board of Trustees, by

THOMAS M. DURELL,

President.



## REPORT OF THE LIBRARIAN.

Gentlemen of the Board of Trustees:

The forty-ninth annual report of the Somerville Public Library, for the year 1921, is herewith submitted.

The home circulation of books during the year was 482,048. The circulation varies from year to year around the half million mark. This impressive figure represents the travel of books to and from the homes of Somerville. To this must be added the use of books within the four library buildings. This normal and legitimate wear and tear of daily use results in an average annual decrease of 6,230 volumes. It is striking evidence of the place of the library in the life of the community.

It is obvious that if the library is to be maintained even at its present size and usefulness, and progressive deterioration is to be avoided, the supply of new books must at least equal the annual decrease. The number that we were able to add in 1921, 3,912, falls far short of the requirement. While books have been increasing in price our appropriation has been decreasing in amount, our library decreasing in size, and in resources to meet the demands that are made upon it. At the prevailing average cost of books a total appropriation of not less than \$9,843, distributed between our four buildings, will be required to replace the annual shrinkage. To maintain the library at a given level, however, is but a mediocre standard. To retrieve our position as a growing institution is the great problem that confronts us.

We are glad to make especial mention of two beneficent gifts of books. The Union Square Branch has received from Mr. John E. Locatelli 120 books of standard literature in the Italian language. These were selected by an Italian scholar and were imported by Mr. Locatelli. Mr. Alexander Garbati has presented to the same branch a twenty-volume set of the novels of Sir Walter Scott, also in Italian. These books will be greatly appreciated by the many people of Italian birth and extraction who use this branch. To the generous donors the library extends its sincere thanks.

Through the efforts of Miss Worthen, Branch Librarian at Union Square, a community Christmas tree was provided for the children whose recorded attendance during the year at this Branch was over 90,000. On Saturday afternoon before Christmas some nine hundred were entertained with music and story telling, and were treated to gifts of candy, pop-corn,

and cookies. Mayor-elect Webster was present and spoke briefly to the children. To the numerous friends who contributed money and services to make a happy day the library expresses its deep appreciation.

Attention is called to the exceptional opportunity to utilize the upper floor of the Union Square building, now unoccupied, for immigrants' citizenship clubs. This type of work has been carried on with great success by the libraries of other Cities. A moderate expenditure would put the rooms into condition for use, and the salary of an additional person for supervision would be a trifling consideration in comparison with the value of such work to our city.

The East Branch also had a decorated Christmas tree and gave candy to children who came to the library on Saturday. The East staff has raised enough money during the year by the sale of candy to buy two chairs for its hitherto unfurnished staff room.

In June the American Library Association held its annual convention at Swampscott during the week of the twentieth. About two thousand delegates from all parts of the United States and Canada attended. Our library was prominently represented upon the various committees of arrangements, and every member of our staff was given an opportunity to be present at some session which dealt with an aspect of library work in which the individual was interested.

From our school room deposits we report a home circulation of 54,756. This result is the most economical in cost of any department of the library. The public school is the only agency by which contact with the whole, or approximately the whole, juvenile population can be secured. It may be well to call attention to the purposes of this work. They are five: to introduce books into homes not otherwise reached; to teach pupils how to use books as tools; to plant the seeds of a taste for the best in literature; to reveal the permanent availability of the public library in after years as a work-shop, a continuation school, and a source for the material of culture; to supplement the educational work of the schools by supplying collateral material for both pupil and teacher.

The executive direction of this department is properly in the hands of an educated and trained assistant. The nature of the work, both in the selection of books and in its applications, calls for a specialized knowledge of the large and rapidly growing field of children's literature. The librarian is convinced that efficiency will be promoted by combining this work with that of the Children's Department. It is therefore recommended that the work with the graded and Junior High

schools be merged with the Children's Department, and that the Children's Librarian at Central be made Supervisor of Children's work, and vested with general supervision for the entire library system.

Special deposits of books have been placed in the following centers: Home for the Aged, Girls Continuation School, Park Avenue Methodist Sunday school, St. Joseph's Catholic Association, St. Clement's School, St. Anne's School, and the Somerville playgrounds.

The Reference Department has answered 66,000 questions for people who have brought or telephoned their inquiries to the library.

A considerable part of the special collections of local history, and Americana, have been re-catalogued and made more readily accessible for use.

There have been many changes in the personnel of the staff during the year 1921. Anna L. Stone has retired after a continuous service of thirty-four years. Edith B. Hayes has gone to another library as Assistant Librarian. She had been a member of our Staff for twenty-two years. Other resignations from the graded service are those of Edythe L. Miller, High School Librarian; Nina L. Winn, in charge of graded and Junior High School work; Mrs. Edna C. Perrine, for a few months Chief Cataloguer; H. Luthera Fisher, First Assistant at East; Olive W. Gleason, Children's Librarian at East; and Mildred J. Hess, Junior Assistant. From the ungraded service, Mary Stack, Mae L. Gormley, and Jessie E. Bennett.

We regret to record the death, while still in our service of Ruth A. McDuffee, Children's Librarian at Union.

The following appointments have been made: Edna C. Woodbury, High School Librarian; Mrs. Edna C. Perrine, Chief Cataloguer; Clara S. Hawes, Cataloguer; Dorothy H. Terry, Children's Librarian at East; Dorothy S. Bamford, Katherine I. Eaton, Lucy W. Harris, and Orpha B. Matheson, Senior Assistants; Mildred J. Hess, Marion J. Meserve, Eleanor A. Randall, Eleanor M. Dean, and Muriel Stowell, Junior Assistants. In the ungraded service, Mary Stack, Ruth Hayes, and Lillian Gould.

Certain promotions and changes in positions deserve mention. Cora B. Eames, Reference Librarian, has been formally recognized as Second Assistant, and next in authority and responsibility in the library system to the Assistant Librarian. Dorothy B. Spear has been promoted to Branch Librarian at East. Dorothy S. Bamford has been promoted to First Assistant at East, and Myrtle Nicholson to the position of Supervisor of Periodicals and Binding.

During the month of March two students from the New York State Library School, and one from Simmons College were allowed to volunteer their services for practice work at the Central Library.

The Training Class which completed its six months course in April brought to our ranks five recruits, of whom four remain. The present class began its work on the first Monday of October, with a membership of six. Two were college graduates, two had a part college course, and the other two had not less than a complete High School course, our minimum educational requirement. Four of the six are either residents of Somerville, or graduates of Jackson College. No non-resident was accepted until it was found that the class quota would not otherwise be filled.

The usual statistical tables herewith appended are submitted as a part of this report.

Respectfully submitted,

GEORGE H. EVANS,

Librarian.

The Public Library of the City of Somerville

APPENDIX A.

Statistics of Use and Growth.

Circulation.

	Central	West	East	Union	Schools	Total
Volumes circulated, adult . . . . .	125,765	89,814	46,075	38,208	5,204	305,066
Volumes circulated, juvenile . . . . .	37,312	26,085	21,945	36,884	54,756	176,982
Total circulation (A. L. A. rules) . . . . .	163,077	115,899	68,020	75,092	59,960	482,048

Accessions.

	Central	West	East	Union	Schools	Total
Volumes in library, Dec. 31, 1920 . . . . .	89,452	13,385	6,223	6,290		115,350
Volumes added . . . . .	2,139	420	472	881		3,912
Volumes transferred to . . . . .	47	18	4	216		285
Volumes restored . . . . .	43	3	0	2		48
Total additions . . . . .	2,229	441	476	1,099		4,245
Volumes withdrawn . . . . .	4,413	717	293	582		6,005
Volumes transferred from . . . . .	236	3	0	46		285
Volumes lost . . . . .	1,403	35	2	50		1,490
Total reductions . . . . .	6,052	755	295	678		7,780
Net gain . . . . .					421	
Net loss . . . . .	3,823	314	181			3,535
Volumes in library, Dec. 31, 1921 . . . . .	85,629	13,071	6,404	6,711		111,815

Registration.

	Central	West	East	Union	Total
Borrowers registered Dec. 31, 1920 . . . . .	6,427	5,486	2,448	2,685	17,046
Expirations in 1921 . . . . .	3,474	3,444	1,543	1,617	10,078
Registrations in 1921 . . . . .	3,386	2,860	1,366	1,389	9,001
Borrowers registered Dec. 31, 1921 . . . . .	6,339	4,902	2,271	2,457	15,969

Expenditure in Library Department.

Per capita expenditure for library service . . . . .	\$0.478	Expenditure per book lent . . . . .	\$0.094
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## APPENDIX B.

## American Library Association Form for Uniform Statistics.

Annual report for year ended December 31, 1921.

Name of library: The Public Library of the City of Somerville, Mass.

City: Somerville

State: Massachusetts

Name of Librarian: George Hill Evans.

Date of founding . . . . .	1872
Population served (latest estimate) . . . . .	95,000
Assessed valuation of city . . . . .	\$86,718,289 60
Rate of tax levy for library purposes: \$0.62½ on each \$1000 valuation . . . . .	
Terms of use: Free for lending . . . . .	
Free for reference . . . . .	
Total number of agencies . . . . .	217
Consisting of Central Library	
Branches . . . . .	3
High School Department . . . . .	1
School Rooms . . . . .	201
Institutions . . . . .	5
Playgrounds . . . . .	7
Number of days open during year (Central Library)	302
Hours open each week for lending (Central Library)	72
House open each week for reading (Central Library)	72

## Increase.

Number of volumes at beginning of year . . . . .	115,350
Number of volumes added during year by purchase . . . . .	3,422
Number of volumes added during year by gift or exchange . . . . .	352
Number of volumes added during year by binding material not otherwise counted . . . . .	138
Number of volumes added during year by lost books restored . . . . .	48
Number of volumes lost or withdrawn during year . . . . .	7,495
Total number at end of year . . . . .	111,815

## Use.

	Adult	Juvenile	Total
Number of volumes of fiction lent for home use . . . . .	229,886	94,263	324,149
Total number of volumes lent for home use . . . . .	305,066	176,982	482,048
Number of pictures, photographs and prints lent for home use . . . . .			1,166

## Registration.

	Adult	Juvenile	Total
Number of borrowers registered during year . . . . .	5,420	3,581	9,001
Total number of registered borrowers . . . . .	9,409	6,560	15,969

Registration period, years . . . . .	2
Number of newspapers and periodicals currently received	
Titles . . . . .	225
Copies . . . . .	494
Number of publications issued during year:	
Bulletins . . . . .	3
Special list . . . . .	1
Number of staff, library service . . . . .	39
Number of staff, janitor service . . . . .	5

**Finance.**

## Receipts from:

City tax levy:		
Library Department . . . . .	\$40,799	71
Public Buildings Department . . . . .	13,035	00
Endowment Funds . . . . .	1,396	41
Fines . . . . .	1,871	11
Other sources (Dog licenses) . . . . .	1,939	18
Total . . . . .		
		<hr/>
		\$59,041 41

## Payments for:

## Library Department:

Books . . . . .	\$6,870	73
Periodicals . . . . .	1,315	83
Pictures . . . . .	90	50
Music . . . . .	41	86
Binding . . . . .	2,710	58
Salaries, library service . . . . .	31,096	91
Supplies . . . . .	776	69
Printing . . . . .	780	81
Telephone . . . . .	305	38
Transportation, postage, express, freight, etc. . . . .	1,128	97
Other maintenance . . . . .	360	62

## Public Buildings Department:

Salaries, janitor service . . . . .	6,984	57
Heat . . . . .	2,651	78
Light . . . . .	2,505	04
Furniture . . . . .	163	21
Permanent improvements . . . . .	431	11
Other maintenance . . . . .	203	59

Total maintenance . . . . .	\$58,418	18
Balance from Appropriation, Library Dept. . . . .	\$1	79
Balance from Endowment Funds . . . . .	525	74
Balance from Appropriation, Public Buildings Department . . . . .	95	70

Grand Total . . . . .		<hr/>
		\$59,041 41

**BOARD OF HEALTH****ORGANIZATION — 1921.**

**ROBERT M. LAVENDER, Chairman**  
**WARREN C. BLAIR**  
**JOHN E. GILLIS, M. D.**

**Clerk and Agent to Issue Burial Permits.**

**LAURENCE S. HOWARD.**

**Assistant Clerk.**

**OLIVE M. STANLEY.**

**Agent.**

**GEORGE I. CANFIELD.**

**Medical Inspector and Bacteriologist.**

**FRANK L. MORSE, M. D.**

**Inspector of Animals and Provisions.**

**CHARLES M. BERRY**

**Inspector of Milk and Vinegar.**

**HERBERT E. BOWMAN.**

**Milk Collector.**

**WILLIAM H. WALLIS.**

**Plumbing Inspector.**

**DUNCAN C. GREENE.**

**School Nurse.**

**GRACE M. ANDREWS, R. N.**

**Assistant School Nurse.**

**GLADYS M. GRANT, R. N.**  
 from Feb. 3, 1921.

**Health Nurses.**

**HELEN B. BERRY, R. N.**                      **MARY L. SCOTT, R. N.**

**Matron at Contagious Hospital.**

**LILLIAN E. GOULD, R. N.**

**Assistant Matron at Contagious Hospital.**

**GERTRUDE MATHEWS, R. N.**  
 from Dec. 7, 1921.



Office of the Board of Health,  
City Hall Annex, January 3 1922.

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen:—We respectfully submit the following as the forty-fourth annual report of the Board of Health in which is presented a statement, tabulated and otherwise, of the sanitary condition of the city and the business of the board for the year ending December 31, 1921:

#### Nuisances.

A record of the nuisances abated during the year, in compliance with notices issued by the board, or under the board's direction, is presented in the following table:

Complaints referred from 1920 . . . . .	26
Complaints received during 1921 . . . . .	583
	<hr/>
	609
Complaints referred to 1922 . . . . .	21
	<hr/>
Nuisances abated in 1921 . . . . .	588
	<hr/>
Second and third notices sent . . . . .	38
Received during 1921 . . . . .	583
	<hr/>
Total notices sent . . . . .	621

In addition to the above, 333 dead animals have been removed from the public streets. Many nuisances have been abated on verbal notice from the agent, without action by the board, of which no record has been made. Each spring the whole city is examined, and cellars, yards and alleyways where rubbish and filth have collected are required to be cleaned.

*Glanders.* Not a single case of glanders has been reported in the city during the past year.

#### Record of Licenses and Permits Issued.

*Cows.* Six applications were received for permits to keep six cows, all of which were granted.

*Goats.* Six applications were received for permits to keep nine goats, all of which were granted. The fee is one dollar for each goat.

*Hens.* One hundred and thirty-two applications for permits to keep 2075 hens were received. One hundred and fifteen permits to keep 1794 hens were granted, and seventeen permits were refused.

*Grease.* Thirteen applications were received for permits for sixteen teams to collect grease, which were granted. The fee is two dollars for each team.

*Melting and Rendering.* Three parties have been licensed to carry on the business of melting and rendering, for which a fee of one dollar is charged.

*Massage and Manicure.* Fifteen persons have been licensed to practice massage and manicure. The fee is one dollar for each license.

*Sale of Alcohol.* The statutes provide that no person, firm or corporation other than a registered druggist shall engage in the business of manufacturing, buying, selling or dealing in methyl alcohol, or wood alcohol, so called or denatured alcohol, or any preparation containing more than three per cent of any of the said alcohols, without being licensed so to do by the board of health.

Under the provisions of this act eight licenses have been issued. The fee is one dollar for each license.

*Bottling. Carbonated Beverages.* Chapter 303, Acts of 1921 provides that no person shall engage in the manufacture or bottling of carbonated non-alcoholic beverages, soda waters and mineral and spring water without a permit from the board of health. Five such permits were granted, a fee of ten dollars being charged in each case.

*Day Nursery.* One license was issued to establish and maintain a Day Nursery for which a fee of one dollar was charged.

#### Stables.

No person has the legal right to erect, occupy or use any building in this city, as a stable, without obtaining a license from the board for such occupancy. Each application is referred to the Agent of this board and no license is granted unless all regulations of the board are complied with. The following is a record of applications received and licenses granted:—

Applications pending from 1920 . . . . .	8
Applications received during 1921 . . . . .	14
	22
Licenses granted . . . . .	13
Licenses refused . . . . .	2
	15
Licenses pending . . . . .	7

#### Board of Infants.

Thirteen applications having been made to the State Department of Public Welfare for licenses to care for children in this city were referred to this board under provisions of

Chapter 119 of the General Laws. Eleven of these applications were approved for the care of twenty-two children and two were returned without the approval of this board.

There were 986 deaths and seventy-eight stillbirths in the city during the year, as specified in the following table, which shows a decrease of deaths over the previous year of 151.

Deaths at Somerville Hospital . . . . .	86
Deaths at hospital for contagious diseases and tuberculosis . . . . .	27
Deaths at home for aged poor (Highland Avenue)	45
Deaths at city home . . . . .	11
Deaths at other institutions . . . . .	36

## Mortality in Somerville in 1921.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
<b>I. GENERAL DISEASES.</b>													
<b>(A. Epidemic Diseases.)</b>													
Cerebro-spinal meningitis.....		1											1
Diphtheria.....		5	3	3	5	2	1	2		2	2	2	27
Measles.....			1									1	2
Pertussis.....		2											2
Scarlet Fever.....	1									1			2
Typhoid Fever.....	1												1
<b>(B. Other General Diseases.)</b>													
Abscess.....						1	1						2
Addison's disease.....				1									1
Auto infection.....	1			1									2
Cancer of breast.....			1		1		3				2	1	8
Cancer of intestines.....	3	1	1	1	2	2	2		2	1	1		16
Cancer of rectum.....		2		1	1			2			1		7
Cancer of stomach.....	1	2	2	1	3	1	2				1		13
Cancer of uterus.....	2	1	2	1	2		3		1	1	1		14
Cancer other forms.....		4	2		2		6	3	5	5	6	3	36
Cardio Renal disease.....		1	1		1					1			4
Diabetes.....	1		2		3	1	1	2	2	2		2	19
Encephalitis Lethargica.....											1		1
Erysipelas.....		1											1
Goitre.....	1		1										2
Hernia.....	1												1
Hodgkins disease.....	2			1									3
La Grippe.....												1	1
Pernicious anæmia.....	1	1	3		1	1		1	2				10
Pyæmia.....							1						1
Septicæmia.....		1											1
Status Lymphaticus.....			1										1
Trichinosis.....							1						1
Tuberculosis pulmonary.....	6	3		8	9	4	8	5	2	2	2	6	55
Tuberculosis other forms.....	2	2		1	2	1						1	9
<b>II. DISEASES OF THE NERVOUS SYSTEM.</b>													
Apoplexy.....	9	13	9	6	10	8	13	9	10	5	9	4	105
Encephalitis.....		1				1				1			3
Epilepsy.....												1	1
Locomotor ataxia.....							1						1
Meningitis.....	1				1							2	4
Oedema of Brain.....	1					2							3
Paralysis.....							2	2					4
Syringomyelia.....					1						1		2
<b>III. DISEASES OF THE CIRCULATORY SYSTEM.</b>													
Aneurism of aorta.....				1		1							2
Angina pectoris.....	1									3	1	1	6
Endocarditis.....	2	1	4	1	1	1						3	13
Heart disease.....	9	8	5	6	9	5	1	2	5	9	7	4	70
Mycarditis.....	4	3	5	4	3	7	4	1	3	4	2	4	44
Pericarditis.....		1											1
Regurgitation.....	1		2				1	3		2	2	2	13

## Mortality in Somerville in 1921.—Concluded.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
IV. DISEASES OF THE RESPIRATORY SYSTEM.													
Asthma.....	1			1									2
Bronchitis.....	1	2	4	3	1	1				2		1	15
Pneumonia.....	11	8	15	10	15	6		4	4	7	4	8	92
Pulmonary œdema.....	1					2		1				2	8
Empyema.....				1							1	1	3
V. DISEASES OF THE DIGESTIVE SYSTEM.													
Acute indigestion.....										1			1
Cirrhosis liver.....			1				1		1				3
Colitis.....		1				1			1	1			3
Diarrhea.....								2					2
Enteritis.....	3			1	2		2	2	2	2			14
Gall stones.....					1	1							2
Gastric Ulcer.....	1								1	1			3
Gastritis.....	1	1						1	1			1	5
Intestinal toxæmia.....								1					1
Intestinal obstruction.....		1							1	2			4
Intersu-ception.....									1				1
Pancreatitis.....								2		1			3
Peritonitis.....		1		1		1				1	1		5
Pharyngitis.....												1	1
Tonsilitis.....	1												1
VI. DISEASES OF THE GENITO-URINARY SYSTEM.													
Cystitis.....	1		1										2
Hypertrophied Prostate.....		1											1
Nephritis.....	6	2	5	3	1	5	1	3	2	3	2	3	36
Pyelitis.....										1			1
Pyonephoses.....											1		1
Uræmia.....	2					1				2			5
VII. CHILDBIRTH.													
Puerpural Embolism.....			1										1
Difficult labor.....											1		1
VIII. DISEASES OF THE SKIN AND CELLULAR TISSUES.													
Gangrene.....					1							1	2
Noma.....			1										1
IX. MALFORMATION.													

## Mortality in Somerville in 1921.—Concluded.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
<b>X. EARLY INFANCY.</b>													
Atalectasis .....						1			1				2
Convulsions .....					1								1
Forceps delivery .....			1			1						2	4
Hemorrhagic disease of the new born .....			2							1		1	4
Icterus Grava .....									1				1
Malignant Jaundice.....			1										1
Malnutrition .....	2												2
Operative shock.....												1	1
Patent Foramen Ovale.....									3				3
Premature birth and congenital debility.....	8	5	4	3	3	5	7	5	3	6	4	4	57
Spina Bifida .....									1				1
<b>XI. OLD AGE.</b>													
Arterio sclerosis .....	15	8	12	12	11	10	6	8	9	9	10	9	119
Senile dementia.....	2					1				1			4
<b>XII. VIOLENCE.</b>													
Heat Prostration.....							1						1
Accidental burns from fire .....											1	1	2
Accidental electrocution .....			1									1	2
Accidental fall.....		1				1							2
Accidental gas poisoning.....								1					1
Accidental suffocation .....										1		1	2
Drowning .....				1	1		1	1	1				5
Fracture of skull.....	1	1	2	2	1				3				10
Homicide.....							1						1
Railroad .....				1	1								2
Run over by team.....	1					1							2
Struck by automobile.....	2	1	4			1	1	1		4			14
Suicide .....							1	1	1		1		4
Surgical shock .....				1		1							2
<b>Total.....</b>	<b>111</b>	<b>87</b>	<b>100</b>	<b>77</b>	<b>96</b>	<b>78</b>	<b>73</b>	<b>65</b>	<b>68</b>	<b>85</b>	<b>71</b>	<b>75</b>	<b>986</b>
Population estimated .....													95,000
Death rate per thousand.....													10.38

## DEATHS BY AGES.

AGES.	Total.	Male.	Female.
Under one . . . . .	135	88	47
One to two . . . . .	17	7	10
Two to three . . . . .	7	4	3
Three to five . . . . .	11	5	6
Five to ten . . . . .	27	14	13
Ten to fifteen . . . . .	18	10	8
Fifteen to twenty . . . . .	27	17	10
Twenty to thirty . . . . .	53	24	29
Thirty to forty . . . . .	45	20	25
Forty to fifty . . . . .	78	39	39
Fifty to sixty . . . . .	106	46	60
Sixty to seventy . . . . .	171	74	97
Seventy to eighty . . . . .	190	77	113
Eighty to ninety . . . . .	90	38	52
Ninety and over . . . . .	11	3	8
<b>Total . . . . .</b>	<b>986</b>	<b>466</b>	<b>520</b>

Table of Deaths During the Last Ten Years.

Year.	No. of Deaths.	Rate per 1,000
1912 . . . . .	983	12.13
1913 . . . . .	993	12.11
1914 . . . . .	990	11.65
1915 . . . . .	1,003	11.55
1916 . . . . .	1,081	12.01
1917 . . . . .	1,067	11.85
1918 . . . . .	1,533	16.84
1919 . . . . .	1,074	11.30
1920 . . . . .	1,137	12.22
1921 . . . . .	986	10.38
Average death rate per 1000 for ten years . . . . .		12.20

Table Showing the Five Principal Causes of Death in Somerville in 1921.

ARTERIO SCLEROSIS		APOPLEXY.		CANCER ALL FORMS.		PNEUMONIA.		HEART DISEASE.	
Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.
119	12.52	105	11.05	94	9.89	92	9.68	70	7.37





**Diseases Dangerous to the Public Health.**

This board has adjudged that the diseases known as actinomycosis, anterior poliomyelitis, anthrax, Asiatic cholera, cerebro-spinal meningitis, chicken pox, diphtheria, dog-bite (requiring anti-rabic treatment), dysentery, German measles, glanders, hookworm disease, infectious disease of the eye, influenza, leprosy, malaria, measles, mumps, pellagra, plague, pneumonia (lobar only), rabies, scarlet fever, septic sore throat, small pox, tetanus, trichinosis, tuberculosis (all forms), typhoid fever, typhus fever, whooping cough, yellow fever, are infectious or contagious and dangerous to the public health and safety within the meaning of the statutes. Physicians are required to report immediately to the board every case of either of these diseases coming under their care, and postal cards conveniently printed and addressed are supplied to them for the purpose. On receipt of a card from a physician, the principal of the school in the district in which the patient resides, the librarian of the public library and state board of health are notified.

**Specimens and Supplies.**

Outfits for specimens to be examined for tuberculosis, diphtheria, and typhoid fever, and diphtheria anti-toxin, vaccine lymph and nitrate of silver solution may be obtained at the laboratory and at the following places:

Edward Edwards, 25 Union square.  
R. A. Peckham, 154 Perkins street.  
Richardson Pharmacy, 310 Broadway.  
Ernest B. McClure, 529 Medford street.  
George E. Wardrobe, 693 Broadway.  
Willis S. Furbush & Co., 1153 Broadway.  
Hall Drug Co., Hobbs building, Davis square.  
John Morrison, 288 Highland avenue.

Hereafter the Agent of this Board will collect, daily, at five o'clock, p. m., all specimens left at culture stations for examination, prior to that hour.

Physicians desiring reports on the following day, of specimens taken after this collection has been made must deposit the same at the City Hall Annex, in the receptacle provided, before nine-thirty p. m.

Results of all examinations of specimens received at the City Hall Annex prior to nine-thirty p. m., will be reported to the physicians on the following morning.

**Medical Inspection at Schools.**

The medical inspection of the schools of Somerville, which was instituted in December, 1907, has been continued during the year. The value of the system has been constantly demonstrated, and the work has been done in a very satisfactory manner. There has been harmony of action between the board of health and the school board, and the school principals and teachers have very generally co-operated with the inspections in making the system as successful as possible.

The inspectors make daily visits to the schools under their charge, and to them are referred all children who show evidences of disease or abnormal conditions. Children who are found to be unfit to remain in school are sent home, accompanied by a slip properly filled out advising that the family physician be consulted. The inspectors also make an annual inspection of all the children in the schools, and any defects discovered are called to the attention of the parents. Monthly inspections of the school buildings and premises are made, and suggestions or criticisms are referred to the proper authorities. Every effort is made to protect the health of the children and to co-operate with the parents in keeping the children in as normal a condition as possible.

In accordance with the provisions of the statute, tests of sight and hearing are made by the principals or teachers.

The districts and inspectors are as follows:—

*District No. 1.*—Eastern Junior High, Prescott, Hanscom, Edgerly, and Boys' Vocational schools. Inspector, Dr. Francis Shaw, 57 Cross street.

*District No. 2.*—Baxter, Knapp, Perry and Southern Junior High schools. Inspector, Dr. Edward J. Dailey, 46 Bow street.

*District No. 3.*—Bennett, Pope, Cummings and Proctor schools. Inspector, Dr. Walter Jellis, 1028 Broadway.

*District No. 4.*—Morse, Carr, Durell, Burns and Girls' Vocational schools. Inspector, Dr. W. L. Bond, 322 Highland avenue.

*District No. 5.*—Brown, Bingham, Forster and Northern Junior High schools. Inspector, Dr. H. M. Stoodley, 283 Highland avenue.

*District No. 6.*—Western Junior High, Lincoln, Highland, Cutler and Lowe schools. Inspector, Dr. H. Cholerton, 94 College avenue.

*District No. 7.*—Glines and High schools. Inspector, Dr. Edgar F. Sewall, 281 Broadway.

*Parochial Schools.*—Inspector, Dr. M. W. White, 21 Walnut street.

During the year, 11,750 children have been referred to the inspectors during their daily visits, and 773 have been sent home because of illness.

The following list will show the classes of diseases and defects which have been found in the schools, except defects of sight and hearing:—

**List of Diseases and Number of Cases Reported.**

1. Infectious diseases:—

Chicken Pox . . . . .	63
Measles . . . . .	3
Mumps . . . . .	70
Scarlet Fever . . . . .	3
Whooping Cough . . . . .	34
	<hr/>
Total . . . . .	173

2. Diseases of the nose and throat:—

Enlarged tonsils and adenoids . . . . .	737
Inflammatory diseases . . . . .	326
	<hr/>
Total . . . . .	1063

3. Diseases of the eyes:—

Inflammatory conditions . . . . .	39
Foreign bodies . . . . .	6
Other abnormal conditions . . . . .	21
	<hr/>
Total . . . . .	66

4. Diseases of the ears:—

Inflammatory conditions . . . . .	38
Other abnormal conditions . . . . .	29
	<hr/>
Total . . . . .	67

## 5. Diseases of the skin:—

Eczema . . . . .	34
Herpes . . . . .	29
Impetigo . . . . .	136
Pediculosis . . . . .	458
Scabies . . . . .	54
Tinea . . . . .	5
Miscellaneous conditions . . . . .	155
Total . . . . .	<hr/> 871

## 6. Miscellaneous diseases:—

Diseases of the circulatory system . . . . .	4
Diseases of the digestive system . . . . .	26
Diseases of the lymphatic system . . . . .	53
Diseases of the nervous system . . . . .	15
Diseases of the respiratory system . . . . .	121
Wounds and injuries . . . . .	41
Diseases of the teeth . . . . .	27
Other conditions . . . . .	289
Total . . . . .	<hr/> 576
Total number of diseases reported . . . . .	2816
Vaccinations performed . . . . .	64
Examinations for vaccinations . . . . .	733
Certificate to work . . . . .	104

**Bacteriological Department.**

The report of the work of this department is made by Frank L. Morse, M. D., on a subsequent page and becomes a part of this report.

**Undertakers.**

Under the provisions of Section 49 of Chapter 114 of the General Laws, twenty-two persons have been duly licensed as undertakers.

**Examination of Plumbers.**

The public statutes provide for a board of examiners of plumbers, consisting of a chairman of the board of health, the inspector of buildings, and an expert at plumbing, to be appointed by the board of health. This board appointed Duncan C. Greene, the inspector of plumbing, to fill the place of expert. The number of licenses granted will be found in the report of the inspector of buildings.

### Health Nurses.

There are at present four nurses employed by this board. Two of these are employed as school nurses and the work of the others, consists of follow-up work regarding tuberculosis cases and post-natal baby hygiene work.

The report of the school nurses are made a part of the report of the School Committee and those of the other nurses are made a part of this report being submitted in detail in subsequent pages.

### Infant Hygiene Clinics.

During the past year clinics for well babies have been held every Thursday afternoon at the Bennett Schoolhouse and every Friday afternoon at the Bingham schoolhouse except when those days were holidays. 718 babies have been registered at these clinics. The average weekly attendance at the Bennett schoolhouse was 30 and at the Bingham schoolhouse 50. These clinics have been under the supervision and control of Somerville Chapter of the American Red Cross and the health nurses connected with this board have assisted in the work. Owing to lack of funds the Red Cross has been obliged to discontinue their efforts in this direction.

This work is of such inestimable value and the results are so far reaching that this board recommends that the maintenance of these clinics be taken over by this department and that an appropriation be made to cover the appointment of an additional nurse and a small amount for incidental expenses.

R. M. LAVENDER, Chairman,

WARREN C. BLAIR,

JOHN E. GILLIS, M. D.

Board of Health.

*Attest:*

LAURENCE S. HOWARD, Clerk.

## REPORT OF HEALTH NURSES.

Somerville, Mass.,  
January 3, 1922.

To the Board of Health,  
Somerville, Mass.

Gentlemen:—

We submit the following report of work performed by us in infant hygiene, post natal and tuberculosis cases for the year ending December 31, 1921.

**Infant Hygiene.**

Infants reported as born in Somerville during 1921 . . . . .	1757
Infants born elsewhere resident in Somerville . . . . .	173
Pairs of twins born in Somerville . . . . .	22
Sets of triplets born in Somerville . . . . .	1
Still-births in Somerville . . . . .	67
Infants who moved away from Somerville . . . . .	85
Infants afflicted with Ophthalmia Neonatorum . . . . .	7
Infants afflicted with Conjunctivitis . . . . .	12

There were one hundred and thirty-five deaths of infants under one year of age in Somerville during the past year as shown in the following table:

Prematurity . . . . .	38
Congenital diseases . . . . .	33
Intestinal diseases (Breast fed 10. Artificially fed 8) . . . . .	18
Accidental suffocation . . . . .	1
Pneumonia and other diseases . . . . .	25
Infants dying in Somerville residence elsewhere . . . . .	20
<b>Total . . . . .</b>	<b>135</b>
Infants under supervision at Baby Welfare Clinics . . . . .	718

## Tuberculosis.

Pulmonary tuberculosis cases reported in 1921 . . . . .	136
Other forms of tuberculosis reported in 1921 . . . . .	26
Patients admitted to Sanatoria . . . . .	49
Patients previously reported in Sanatoria . . . . .	52
Deaths in Sanatoria 27. Discharged 6 . . . . .	33
Patients now in Sanatoria . . . . .	67
Patients who have moved away from Somerville . . . . .	26
Patients temporarily out of Somerville . . . . .	21
Deaths from tuberculosis in Somerville . . . . .	64
Tuberculosis patients now living in Somerville . . . . .	311
Pulmonary . . . . .	231
Other forms . . . . .	80

## Homes where there is or has been tuberculosis where there are school children

Previously reported . . . . .	253
Found this year . . . . .	45

298

## Children in homes where there is or has been tuberculosis. Reported to School Department.

Previously reported . . . . .	455
Found this year . . . . .	89

544

## Houses from which second and third reports of tuberculosis have come.

Previously reported . . . . .	45
This year . . . . .	25

70

TABLES SHOWING AGES AND SEX OF CASES IN THIS CITY.  
Pulmonary Tuberculosis.

Ages	SEX		Total
	Male	Female	
Under fifteen years.....	5	5	10
From fifteen to twenty years.....	2	10	12
From twenty to thirty years.....	39	22	61
From thirty to forty years.....	11	7	18
Over forty years.....	23	12	35
<b>Total</b> .....	<b>80</b>	<b>56</b>	<b>136</b>

Other Forms of Tuberculosis.

Ages	SEX		Total
	Male	Female	
Under fifteen years.....	2	9	11
From fifteen to twenty.....	0	2	2
From twenty to thirty years.....	3	3	6
From thirty to forty years.....	3	0	3
Over forty years.....	4	0	4
<b>Total</b> .....	<b>12</b>	<b>14</b>	<b>26</b>

Patients in Somerville Pulmonary 231. Other forms 80 311  
 Total visits made to Tuberculosis patients 1039

Miscellaneous.

Typhoid Fever cases reported (died 1) . . . . . 10  
 Total miscellaneous visits . . . . . 82

Recapitulation of Visits.

Baby Hygiene . . . . . 6610  
 Tuberculosis . . . . . 1039  
 Miscellaneous . . . . . 82  
**Total visits . . . . . 7731**

Respectfully submitted,  
 HELEN B. BERRY,  
 MARY L. SCOTT,  
 Health Nurses.



## REPORT OF DEPARTMENT OF MEDICAL INSPECTION.

Somerville, Mass.,  
January 3, 1922.

To the Board of Health,  
Somerville, Mass.

Gentlemen:—

I herewith present the report of the Department of Medical Inspection for the year 1921 including statistics of the Contagious Hospital.

## Visits.

Scarlet Fever—Each case must be inspected before release from quarantine to see that the condition of the patient is suitable for release . . . . .	143
Diphtheria—Before patients are released from quarantine two successive negative cultures must be obtained . . . . .	144
Contagious Hospital . . . . .	394
Total number of visits . . . . .	681

## Contagious Disease Hospital.

Diseases	In Hospital Jan. 1, 1921	Ad- mitted	Discharged Well or improved	Dead	In Hospital Jan. 1, 1922
Diphtheria . . . . .	0	136	104	19	13
Scarlet Fever . . . . .	2	62	57	0	7
Tuberculosis . . . . .	9	12	14	7	0
Miscellaneous . . . . .	1	7	6	2	0

The daily average of patients was 10.1 in the contagious department, 5.7 in the tuberculosis department, a total of 15.8.

## LABORATORY EXAMINATIONS.

## Diphtheria.

	Negative	Positive	Total
January . . . . .	99	13	112
February . . . . .	144	25	169
March . . . . .	127	20	147
April . . . . .	126	24	150
May . . . . .	109	8	117
June . . . . .	60	19	79
July . . . . .	50	3	53
August . . . . .	33	6	39
September . . . . .	44	1	45
October . . . . .	38	6	44
November . . . . .	102	12	114
December . . . . .	82	8	90
Totals . . . . .	1014	145	1159

## ANNUAL REPORTS.

## Tuberculosis.

	Negative	Positive	Total
January . . . . .	18	4	22
February . . . . .	15	9	24
March . . . . .	20	5	25
April . . . . .	24	3	27
May . . . . .	19	8	27
June . . . . .	19	5	24
July . . . . .	11	5	16
August . . . . .	11	2	13
September . . . . .	13	4	17
October . . . . .	10	3	13
November . . . . .	8	2	10
December . . . . .	11	5	16
Totals . . . . .	179	55	234

## Typhoid.

	Negative	Positive	Total
January . . . . .	2	0	2
February . . . . .	6	0	6
March . . . . .	5	0	5
April . . . . .	5	0	5
May . . . . .	1	0	1
June . . . . .	3	0	3
July . . . . .	3	0	3
August . . . . .	2	0	2
September . . . . .	5	2	7
October . . . . .	7	1	8
November . . . . .	3	1	4
December . . . . .	1	0	1
Totals . . . . .	43	4	47

Examinations made for Malaria, Ophthalmia, Paratyphoid, Gonorrhoea and Pneumonia . . . . .	11
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Total examinations . . . . .	1451
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## Tuberculosis.

On September 1st with the approval of His Honor the Mayor, the Tuberculosis ward at the Contagious Hospital which had been maintained since the fall of 1911, was closed on account of the small number of patients cared for. Arrangements were made with the Cambridge Board of Health whereby patients having a legal settlement in Somerville would be transferred to their Tuberculosis Hospital for treatment.

The decrease in the number of deaths from tuberculosis in this city during the past twenty years has been remarkable

and can be attributed to several causes, among which may be mentioned the increased resistance of the individual person, the general education of the public in the care and prevention of the disease, the destruction of sputum from those who are infected, the personal supervision of individual cases at their homes by public health nurses, the removal of active cases to tuberculosis hospitals thereby removing the source of infection from other members of the family, and the pasteurization of milk which at the present time is over ninety per cent of the total amount distributed in the city.

During this twenty-year period the death rate per 1000 of population has diminished from 16.5 in 1900 to 12. in 1905, 9.8 in 1910, 7.9 in 1915, 6.4 in 1920 and during the past year to 5.8.

This remarkable and continuous decrease in the death rate from tuberculosis is indicative of its successful control and leads us to believe that the deaths will still continue to diminish although we cannot look forward to its ultimate disappearance.

Respectfully submitted,

FRANK L. MORSE,  
Medical Inspector and Bacteriologist.

## REPORT OF THE INSPECTOR OF ANIMALS AND PROVISIONS.

Somerville, Mass.,  
January 3, 1922.

To the Board of Health,  
Somerville, Mass.

Gentlemen:—

I submit the following as my report for the year ending December 31, 1921.

### Inspections.

The following table shows the number of inspections made during the past year. In order to safeguard the consumer, all establishments handling foodstuffs are under constant supervision. Lunch carts and restaurants have been inspected weekly.

Under the provisions of the General Laws of 1920 all bakeries are required to register with the Board of Health. The law provides that all doors and windows shall be properly screened and that all food exposed for sale shall be kept covered. Careful inspections of all bakeries have been made to see that this law has been complied with.

All the factories in the city have been inspected monthly.

The Barber Shops are under very careful inspection and must be kept in a sanitary condition and the barbers are required to keep themselves neat and clean and to properly sterilize their instruments.

### Number of Inspections.

Bakeries . . . . .	423	Pedlers Wagons and Stock . . . . .	2383
Barber Shops . . . . .	381	Premises where Cows are kept . . . . .	7
Bath Houses . . . . .	8	Premises where Goats are kept . . . . .	9
Billiard Halls and Bowling Alleys . . . . .	93	Premises where Swine are kept . . . . .	66
Blacksmith's Shops . . . . .	26	Public Halls . . . . .	27
Bottling Establishments . . . . .	10	Rendering Plants . . . . .	138
Candy and Ice Cream Plants . . . . .	192	Slaughter Houses . . . . .	334
Factories . . . . .	183	Stores and Markets . . . . .	3857
Fish Markets . . . . .	578	Stables . . . . .	247
Hen Houses and Yards . . . . .	390	Theatres . . . . .	76
Hide Houses . . . . .	48	Vacant Lots . . . . .	22
Lunch Rooms and Cars . . . . .	582	Yards and Cellars . . . . .	573
Milk and Cream Plants . . . . .	121		

## Articles Condemned.

The following is a list of the articles condemned.

## Fish.

Cod . . . . .	30 Lbs.
Flounders . . . . .	14 Lbs.
Haddock . . . . .	474 Lbs.
Halibut . . . . .	43 Lbs.
Lobsters . . . . .	12 Lbs.
Mackerel . . . . .	57 Lbs.
Mackerel . . . . .	59 Whole
Oysters . . . . .	17 Q'rts
Salmon . . . . .	14 Lbs.

## Fruit.

Apples . . . . .	1 Bbl.
Apples . . . . .	15 Bush.
Bananas . . . . .	16 Doz.
Blackberries . . . . .	51 Boxes
Blueberries . . . . .	16 Q'rts.
Blueberries . . . . .	35 Boxes
Canteloupes . . . . .	Crates
Grape Fruit . . . . .	½ Box
Oranges . . . . .	2½ Boxes
Strawberries . . . . .	58 Boxes
Strawberries . . . . .	114 Q'rts.

## Meats.

Beef (corned) . . . . .	587 Lbs.
Beef (fresh) . . . . .	131 Lbs.
Fowl . . . . .	628 Lbs.
Lamb . . . . .	432 Lbs.
Liver . . . . .	63 Lbs.
Hogs . . . . .	4 Whole
Pork (fresh) . . . . .	189 Lbs.
Sausages . . . . .	19 Lbs.
Shoulders (corned) . . . . .	128 Lbs.
Steak (Hamburg) . . . . .	11 Lbs.
Turkey . . . . .	105 Lbs.
Veal . . . . .	126 Lbs.

## Vegetables

Asparagus . . . . .	108 B'ches.
Beans (string) . . . . .	19 Bush.
Beets . . . . .	1 Bush.
Cabbags . . . . .	1 Bbl.
Corn . . . . .	9 Bush.
Greens . . . . .	8 Bush.
Lettuce . . . . .	5 Bush.
Lettuce . . . . .	2 Boxes
Onions . . . . .	15 Bush.
Potatoes (white) . . . . .	11 Bush.
Potatoes (sweet) . . . . .	2 B'skts.
Tomatoes . . . . .	7 Bush.
Tomatoes . . . . .	12 B'skts.
Turnips . . . . .	2 Bush.

## Miscellaneous.

Coffee . . . . .	30 Lbs.
Crackers . . . . .	11 Cans
Crackers . . . . .	56 Pks.
Dates . . . . .	10 Lbs.
Essence . . . . .	50 B'tles.
Flour . . . . .	200 Lbs.
Hops . . . . .	30 Pks.
Malt . . . . .	100 Lbs.
Raisins . . . . .	12 Lbs.
Rice . . . . .	55 Lbs.
Tea . . . . .	35 Lbs.

## Slaughter Houses.

During the year weekly inspections have been made at all slaughtering establishments and these plants were never in a more sanitary condition than at present.

The number of animals slaughtered during 1921 in this city was somewhat less than during previous years.

## Number of Animals Slaughtered in 1921.

Swine . . . . .	747,060
Sheep . . . . .	394,699
Calves . . . . .	110,817
Cattle . . . . .	31,464
	<hr/>
	1,284,040

## Examination of Animals for Contagious Diseases.

## Glanders.

There has been a steady decrease of glanders in this city for several years which I believe is largely due to a thorough inspection and disinfection of stables and blacksmith shops, and to the discontinuance of public drinking fountains for horses. Every stable and blacksmith shop in the city is in first class condition.

In 1913 there were 55 horses killed for glanders; in 1914 thirty; in 1915 ten; in 1916 thirteen; but eight of these were in one stable; in 1917 nine; in 1918 seven; in 1919 only three were killed, and since that time not a case of glanders has been reported.

## Animals Examined.

	Inspected	Quaran- tined	Killed	Released
Horses . . . . .	1383	1	0	1
Swine . . . . .	66	0	0	0
Cows . . . . .	7	0	0	0
Goats . . . . .	9	0	0	0
Dogs . . . . .	2	2	0	2
	<hr/>	<hr/>	<hr/>	<hr/>
	1467	3	0	3

Respectfully submitted,

CHARLES M. BERRY,  
Inspector of Animals and Provisions.

## REPORT OF THE INSPECTOR OF MILK AND VINEGAR.

Chemical and Bacteriological Laboratory.  
City Hall Annex.

Somerville, Mass.,  
January 3, 1922.

To the Board of Health,  
Somerville, Mass.

Gentlemen:—

I herewith present my annual report for the year ending December 31, 1921.

On the above date there were in this city licensed to sell milk, 608 stores and 67 dealers, and 112 stores to sell oleo-margarine.

Of the 67 dealers, 24 are located in this city and 37 in the neighboring cities and towns, and 6 dealers have discontinued business.

There are approximately 30,000 quarts of milk and 2100 quarts of cream distributed in Somerville daily, and 23 dealers are pasteurizing their milk according to General Laws Chap. 94, Section 1.

Six dealers discontinued business, 11 new dealers (distributors) applied for a license and there are 6 dealers who handle cream exclusively.

Table 1.

Months.	Licenses Issued.	License Fees.	Analytical Fees.	Cash Paid City Treas.	Analyses on Account.	Total Income for Dept.
January .....	11	5.50	.....	5.50	60.00	65.50
February .....	20	10.00	.....	10.00	26.00	36.00
March .....	19	9.50	1.50	11.00	51.50	62.50
April .....	11	5.50	.....	5.50	61.50	67.00
May .....	454	227.00	3.50	230.50	49.50	280.00
June .....	99	49.50	.50	50.00	55.00	105.00
July .....	37	18.50	1.50	20.00	64.50	84.50
August .....	35	17.50	1.50	19.00	129.00	148.00
September .....	27	13.50	5.00	18.50	32.00	50.50
October .....	23	11.50	5.50	17.00	61.50	78.50
November .....	17	8.50	1.00	9.50	24.50	34.00
December .....	34	17.00	.....	17.00	31.00	48.00
Total .....	787	393.50	20.00	413.50	646.00	1059.50

Income from license fees, analytical work, etc.	\$1,059 50
Fines in Somerville Court	70 00

Total income for department	\$1,129 50
-----------------------------	------------



Table 2.

## Samples of Milk, Cream, Ice Cream and Vinegar Examined.

Months.	Chemical Samples Collected.	Bact. Collections.	Lorenz Tests.	Total Collections.	Samples Submitted	Total Examinations.
January .....	247	63	34	344	71	415
February .....	316	62	28	406	48	454
March .....	328	54	28	410	101	511
April.....	249	37	37	323	120	443
May .....	299	63	55	417	92	509
June .....	169	67	45	281	99	380
July.....	228	9	199	436	128	564
August .....	175	40	12	227	230	457
September.....	222	39	39	300	72	372
October .....	291	46	46	383	117	500
November.....	277	9	9	295	48	343
December .....	264	42	42	348	58	406
Total.....	3065	531	574	4170	1184	5354

Table 3.

Months.	Chemical Notices.	Bact. Notices.	Sanitary Notices.	Temperature Notices.	Total Notices.	Inspections.
January .....	6	11	1	.....	18	20
February .....	6	2	2	.....	10	43
March .....	15	1	5	.....	21	18
April.....	13	6	.....	.....	19	9
May .....	13	12	6	2	33	13
June .....	20	11	5	.....	36	7
July .....	17	12	24	38	91	45
August .....	17	4	1	11	33	16
September.....	12	4	6	.....	22	60
October .....	8	4	3	.....	15	19
November.....	3	2	4	.....	9	21
December .....	6	3	1	.....	10	15
Total.....	136	72	58	51	317	286

The above is a summary of the Laboratory Work during 1921.

Each month during the year pint samples have been taken from every milk dealer and analyzed for food value (fats and solids) and cleanliness (bacterial count and sediment) and the yearly average is shown in the alphabetical list of dealers which follows:

## Regular Market Milks.

Name of Dealer	Bacteria Per C. C.			
	Butter Fat	Total Solids	Maximum	Heated or Raw
	Legal Standard 3.35 p.c.	Legal Standard 12.00 p.c.	Allowed Raw 500,000 Past. 100,000	
B. A. Allen .....	3.71	12.42	114,000	Past.
A. H. Andrews .....	3.78	12.38	46,100	Past.
H. E. Bemis .....	3.70	12.27	71,600	Past.
*J. A. Bergman .....	3.64	12.29	216,400	Past.
E. E. Breen .....	3.70	12.28	162,300	Past.
J. F. Cashin .....	3.65	12.23	70,000	Past.
F. S. Cummings Co. ....	3.74	12.36	51,300	Past.
J. F. Dillon .....	3.63	12.30	111,900	Flash
Donnelly Brothers .....	3.82	12.42	90,000	Past.
F. E. Edgerly .....	3.69	12.27	1356,000	Raw
†A. F. P. Gassett .....	3.67	12.30	677,700	Raw
F. E. Giles .....	3.66	12.17	25,700	Past.
J. E. & H. J. Giroux .....	3.72	12.27	272,800	Flash
†B. J. Griffin .....	3.64	12.22	223,300	Raw
J. P. Griffin .....	3.72	12.32	757,500	Raw
J. M. Hager & Son .....	3.82	12.48	125,300	Past.
M. B. Harris .....	3.80	12.51	332,500	Raw
H. P. Hood & Sons .....	3.73	12.27	36,500	Past.
†Herlihy Brothers .....	3.82	12.37	58,000	Past.
P. J. Kelley .....	3.69	12.27	90,000	Past.
Kendall Brothers .....	3.55	12.07	125,700	Raw
Maple Farm Milk Co. ....	3.73	12.29	111,100	Past.
E. M. Monahan .....	3.85	12.47	650,000	Raw
J. J. Mulkerin .....	3.49	12.01	516,600	Raw
W. F. Noble & Sons .....	3.90	12.58	15,900	Past.
*P. O'Shaughnessy .....	3.65	12.24	369,400	Past.
S. E. Paige .....	3.69	12.33	151,000	Raw
Plymouth Creamery System	3.96	12.64	124,700	Past.
H. A. Prescott .....	3.63	12.14	25,600	Past.
T. F. Ronayne .....	3.83	12.42	563,000	Raw
Seven Oaks Dairy Co. ....	3.81	12.46	34,800	Flash
H. L. Stone .....	3.83	12.49	65,700	Past.
W. E. Stuart .....	3.86	12.61	16,000	Past.
Swenson Brothers .....	3.70	12.32	103,900	Raw
F. P. Thompson & Son ...	3.72	12.30	347,700	Raw
G. E. Thompson .....	3.85	12.48	856,600	Raw
Toothaker Brothers .....	3.81	12.46	50,800	Past.
A. Trepaney .....	3.92	12.53	40,000	Raw
Turner Centre Creamery	4.05	12.80	16,800	Past.
A. S. Tyler .....	3.55	12.10	160,400	Raw
E. L. Tyler .....	3.63	12.16	698,500	Raw
D. Whiting & Son .....	3.79	12.33	27,200	Past.
C. A. Woodbury .....	3.89	12.59	55,600	Flash

\* Now Pasteurizing. † Found guilty and fined in court.

The higher the fat and solids the greater the food value. The lower the bacterial count, the greater care in production, better handling or more efficient pasteurization is shown.

#### Special Priced Milks.

Milk commanding an increased price due to special care in production or greater food value.

Dealer	Butter Fat	Total Solids	Bacteria	
F. S. Cummings Co. ....	4.21	13.12	21,000	Grade A
F. S. Cummings Co. ....	3.57	12.28	8,000	Codman Farms
F. S. Cummings Co. ....	5.16	14.15	80,000	Mixer Farm
F. S. Cummings Co. ....	4.12	13.16	27,000	Baby
H. P. Hood & Sons ....	3.76	12.49	24,000	Hood Farm
H. P. Hood & Sons ....	3.80	12.71	41,000	Bonnie Brook
H. P. Hood & Sons ....	3.61	12.38	7,000	Cherry Hill
H. P. Hoods & Sons ....	4.05	12.62	1,000	Grade A
W. F. Noble & Sons ....	4.25	13.15	72,000	Grade A
D. Whiting & Sons ....	3.98	12.44	8,300	Grade A
D. Whiting & Sons ....	3.71	12.43	4,000	Hamp. Hills.
Walker Gordon Lab. ....	4.54	13.45	15,000	

The General Laws define the terms used in this report as follows:—

*“Heated Milk”*.—Milk which has been subjected to artificial heat greater than one hundred and sixty-seven degrees Fahrenheit.

*“Pasteurized Milk”*.—Natural cows milk not more than 72 hours old when pateurized, subjected for a period of not less than thirty minutes to a temperature of not less than one hundred and forty nor more than one hundred and forty-five degrees Fahrenheit and immediately thereafter cooled to a temperature of fifty degrees Fahrenheit or lower.

*“Flash”* method has not been defined by law, but the method in general use is to heat milk as quickly as possible to *about* one hundred and fifty-eight degrees Fahrenheit and immediately cooling to below fifty degrees Fahrenheit.

#### Laws Governing the Sale of Special Milks.

##### Chapter 94.—Section 13.

*“Grade A, Massachusetts Milk”* shall consist exclusively of milk produced within the commonwealth from healthy cows under cleanly and sanitary conditions, and so cooled and cared for that in its raw state the bacteria count shall not average more than one hundred thousand per cubic centimeter, upon examination of five samples taken one each day, and each from a different lot of milk, on five consecutive days. When

sold, kept or offered for sale or exchange, such milk shall be designated and marked by a label, cap or tag bearing the words "Grade A, Massachusetts Milk" in plain, legible bold-faced type. The percentage of milk fat may also be stated upon said label, cap or tag, but the amount of milk fat shall never be less than the standard fixed for milk by the preceding section.

#### Chapter 94.—Section 15

If any grade or classification of milk other than "Grade A, Massachusetts Milk" is established, permits for the sale of such other milk shall be granted and may be revoked in accordance with the preceding section with respect to "Grade A, Massachusetts Milk", but such permits shall not be granted until the milk to be sold thereunder has been tested in such manner as the local board of health, to whom application for the permit is made, shall determine. Milk sold or exchanged or kept or offered for sale or exchange under such a permit shall be marked with a label, cap or tag, bearing in the English language in plain, legible, bold-faced type, the name of the grade as it is determined by such board.

This department has received *no* requests for permits to sell special milks of varying grades though many dealers are offering special priced milks to the public under the head of "Grade A"; "Baby Milk"; "Special Milk"; "Inspected Milk"; etc. The dealer *alone* is responsible for the superior quality of the various grades. A list of the special milks that have come to the attention of this department is published as a part of this report.

#### Infant Mortality.

The index of an efficient system of Milk Inspection is conceded by health authorities to be the reduced mortality rate from intestinal diseases among infants under one year of age. This rate in Somerville has decreased year by year and those interested are referred to the mortality tables in the health department report.

#### Country Inspection.

Methods of shipping milk to the large centres of population have changed considerably in the last few years. The custom formerly was for the individual producer to bring his milk to the railroad and ship it directly to the dealer in the city. This practice has changed somewhat and the cooperative system of marketing milk has been developed.

Creameries have been developed and the producers now sell their product to the creamery which in turn sells direct to the distributor. Under this arrangement it becomes necessary to promulgate regulations governing the conduct of these creameries. This has been done and an inspection has been made of relatively small numbers of establishments. Unsanitary conditions have been found at many of these places and much work should be done at the country end if the sale of milk from these places is to be allowed in Somerville. There are about 350 creameries in New England shipping milk to the metropolitan district and it is very evident to those who have visited these places that a careful supervision should be maintained over not only the creameries shipping fluid milk, but also the butter and ice cream factories who come in direct competition with the fluid milk factories.

The same cleanliness should be demanded of producers whether their milk is used for butter, or ice cream or sold as fluid milk and a producer who has been refused permission to ship milk to the city on account of unsanitary conditions, should not be allowed to sell to the butter or ice cream factory next door.

#### Conclusions and Recommendations.

1. That more time be devoted to country inspection and that a dairy inspector be appointed to look after the country end where the milk is produced, and in some instances processed, that we may inspect creameries and dairies and confirm the corrections required.

2. That a law or regulation be promulgated making pasteurization compulsory.

3. That all pasteurizers be equipped with an automatic temperature control and that all charts from same be preserved at least six months.

4. This department *does not* recommend any *particular special milk*, but we *are* striving to have *all* the milk sold in this city safe and wholesome.

Respectfully submitted,

HERBERT E. BOWMAN,

Inspector of Milk and Vinegar.

**SUPPORT OF POOR DEPARTMENT.**

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**Board of Overseers of the Poor.**

FRED E. DURGIN, President.

MICHAEL COLL, Vice-President.

HENRY F. CURTIS, M. D.

**Committees.****On Finance, Investigation and Relief, and City Home**

MR. DURGIN, MR. COLL AND DR. CURTIS.

**Clerks.**

JOSEPHINE M. SANDER

HELEN E. LINEGAR  
(Appointed April 24, 1921)**General Agent.**

WILLIAM E. COPITHORNE.

**City Physician.**

C. CLARKE TOWLE, M. D.

**Warden and Matron, City Home.**

MR. AND MRS. J. FOSTER COLQUHOUN.

**Office.**

City Hall Annex, Highland Avenue.

Somerville, Mass., December 31, 1921.

To His Honor, the Mayor, and the Board of Aldermen of the  
City of Somerville:—

Gentlemen,—The Overseers of the Poor submit herewith reports of the General Agent, the Warden of the City Home and the City Physician, with tables showing the work.

Respectfully submitted,

FRED E. DURGIN,

MICHAEL COLL,

HENRY F. CURTIS,

*Overseers  
of the  
Poor.*

**REPORT OF GENERAL AGENT.**

---

City Hall Annex, January 1, 1922.

To the Overseers of the Poor, Somerville, Mass.:—

Gentlemen, — The following as the report of the general agent for the year ending December 31, 1921, is herewith submitted:—

Table No. 1.

**FULL SUPPORT (During the year).**

In City Home (men 31, women 32,) . . . . .	63
In City Home, December 31, 1921 . . . . .	32
In private families . . . . .	19
In Hospitals for the sick in other cities, towns and state .	58
In care of state division minor wards (children) . . . .	17

Table No. 2.

**PARTIAL SUPPORT (Outside Relief).**

Families . . . . .	170
Persons aided (including hospital cases) . . . . .	828
Burials . . . . .	7
Permits to State Infirmary . . . . .	14

Table No. 3.

**AID UNDER 1913 LAW (Mothers' Aid).**

Number of applications from widows or deserted women .	86
Number of families aided at close of year . . . . .	69
Number of children . . . . .	304
Amount allowed each family, from \$4.00 to \$20.00 per week	
Number of out-of-town families . . . . .	17
Number having no settlement . . . . .	22

**Cost to City.**

Somerville settlement . . . . .	\$18,829 94
Settled in other cities and towns (reside here) . . . . .	6,499 19
State . . . . .	8,661 87
Somerville families living in other cities and towns . . .	2,483 05
	\$36,474 05



Table No. 7.

## Expenditures in Detail for the Year 1921.

1921	Cash Allowance	Med. Att. and Medicine	Board.	Groceries.	Somerville Poor in other Cities and Towns.	Dry Goods and Shoes.	Burials.	Salaries.	Fuel.	Sundries.	Cash Paid Out.	Telephone.	Stationery and Printing.	Somerville Hospital.	State Institutions.	Other Institutions.	Nursing.	Somerville Poor in other Cities and Towns 1913 Law.	Totals
January .....	\$76.36	\$27.83	\$265.21	\$273.00	\$304.75	.....	\$75.00	\$492.98	\$499.70	\$12.50	\$4,696.30	\$10.94	\$ 4.00	\$532.60	\$276.58	\$242.15	\$4.50	\$.....	\$7,794.40
February .....	81.29	15.26	126.57	163.00	458.37	.....	.....	408.54	368.65	18.50	3,777.60	10.38	.....	434.60	.....	.....	5.00	.....	5,867.76
March.....	54.22	31.70	744.52	227.00	354.29	.....	70.00	498.52	389.85	16.50	3,880.50	19.91	12.50	848.00	.....	192.13	6.50	.....	7,346.14
April.....	54.36	.....	354.99	209.00	459.44	.....	.....	518.73	.....	16.50	4,931.00	.....	26.75	1,049.00	302.00	.....	6.00	21.33	7,949.10
May .....	44.79	47.19	198.93	185.00	197.90	.....	10.00	522.05	5.60	17.50	4,052.02	10.27	14.75	682.00	.....	.....	2.00	855.00	6,845.00
June .....	35.87	.....	661.25	260.00	100.00	.....	80.00	612.05	.....	20.00	4,241.00	10.18	26.20	650.00	.....	194.43	2.00	272.63	7,165.61
July.....	36.79	5.00	420.50	255.00	780.94	.....	43.00	629.73	.....	12.50	5,204.20	9.84	29.00	759.00	261.18	40.42	3.00	.....	8,490.10
August.....	36.79	.....	171.64	261.00	130.00	.....	.....	518.55	.....	12.50	4,149.00	10.11	.....	741.00	.....	.....	7.50	.....	6,038.09
September...	35.87	52.98	493.83	314.00	12.25	.....	.....	502.55	.....	12.50	4,305.53	10.57	10.75	416.00	.....	188.94	7.50	.....	6,363.27
October.....	36.79	9.02	448.20	193.00	130.00	.....	.....	537.73	.....	12.50	5,365.72	9.17	.....	725.00	532.63	.....	14.50	.....	8,014.26
November...	35.87	21.76	313.55	187.00	397.53	.....	.....	522.05	313.13	32.14	4,472.80	9.84	22.80	635.00	.....	92.40	22.50	1,120.17	8,198.54
December....	36.79	.....	189.35	136.00	182.00	.....	59.00	607.36	241.33	12.50	5,660.05	10.50	16.33	282.00	.....	186.29	17.00	213.92	7,850.42
Totals.....	\$565.79	\$210.74	\$4,388.54	\$2,663.00	\$3,507.47	.....	\$337.00	\$6,370.84	\$1,818.26	\$196.14	\$54,735.72	\$121.71	\$163.08	\$7,754.20	\$1,372.39	\$1,136.76	\$98.00	\$2,483.05	\$87,922.69



Table No. 4.  
REIMBURSEMENTS.

Commonwealth of Massachusetts . . . . .	\$27,783 12
City of Boston . . . . .	1,293 52
“ “ Brockton . . . . .	691 63
“ “ Cambridge . . . . .	935 85
“ “ Chelsea . . . . .	228 00
“ “ Everett . . . . .	428 70
“ “ Lynn . . . . .	51 43
“ “ Malden . . . . .	327 58
“ “ Medford . . . . .	512 63
“ “ Melrose . . . . .	62 50
“ “ Quincy . . . . .	82 00
“ “ Revere . . . . .	35 00
“ “ Salem . . . . .	378 67
Town of Arlington . . . . .	152 60
“ “ Sheffield . . . . .	45 55
“ “ Watertown . . . . .	9 00
“ “ Winchester . . . . .	156 00
Individual . . . . .	255 43
	<hr/>
	\$33,429 21

Table No. 5.

## SOMERVILLE HOSPITAL (PATIENTS ON CITY BEDS).

Patients having settlement in Somerville . . . . .	74
Patients having settlement in other cities and towns . . . . .	13
Patients having no settlement (chargeable to State) . . . . .	20
Total number of patients sent to hospital . . . . .	107
Amount paid to hospital . . . . .	\$7,754 20

Table No. 6.

## POPULATION AND GROSS EXPENDITURES, 1900 TO 1921.

Year	Population (Estimated)					
1900	*61,643	(Misc. \$23,697.62	Home, \$5,528.83)	Total	\$29,226.45	
1901	— 62,500	“ 29,171.15	“ 6,622.43	“	35,793.58	
1902	— 63,500	“ 28,667.04	“ 7,396.64	“	36,063.68	
1903	— 65,500	“ 30,470.20	“ 7,548.39	“	38,018.59	
1904	— 69,500	“ 20,476.54	“ 6,563.11	“	27,039.65	
1905	*69,272	“ 17,527.88	“ 7,474.36	“	25,002.24	
1906	— 72,000	“ 18,237.53	“ 6,806.79	“	25,044.32	
1907	— 74,000	“ 17,852.20	“ 7,001.23	“	24,853.43	
1908	— 75,500	“ 17,955.34	“ 6,875.56	“	24,830.90	
1909	— 75,500	“ 16,843.17	“ 7,562.83	“	24,406.00	
1910	*77,236	“ 16,110.42	“ 7,695.89	“	23,806.31	
1911	— 78,000	“ 16,327.56	“ 7,842.03	“	24,169.59	
1912	— 81,000	“ 19,201.33	“ 8,998.97	“	28,200.30	
1913	— 82,000	“ 21,827.73	“ 10,945.95	“	32,773.68	
1914	— 85,000	“ 35,619.68	“ 11,200.25	“	46,819.93	
1915	*86,854	“ 45,490.98	“ 11,218.65	“	56,709.63	
1916	— 90,000	“ 51,759.62	“ 11,593.41	“	63,353.03	
1917	— 90,000	“ 53,653.33	“ 13,417.77	“	67,071.10	
1918	— 90,500	“ 63,420.48	“ 15,411.20	“	78,831.68	
1919	— 91,000	“ 67,682.53	“ 15,789.34	“	83,471.87	
1920	*93,033	“ 77,456.57	“ 17,308.29	“	94,764.86	
1921	— 95,000	“ 87,922.69	“ 15,069.81	“	102,992.50	

\* Census

## OVERSEERS OF THE POOR OF SOMERVILLE.

Since the reorganization in 1885.

†Hon. Mark F. Burns, chairman, ex-officio . . . . .	1885	1888	inclusive
†Col. Herbert E. Hill . . . . .	1885	1889	"
†Charles S. Lincoln, Esq., chairman . . . . .	1885	1887	"
†Hon. Edward Glines . . . . .	1885	1887	"
†Charles G. Brett (president 1888-1892) . . . . .	1885	Apr. 1893	"
Edward B. West (President May, 1894 - February, 1912) . . . . .	1888	to 1912	"
†Daniel C. Stillson . . . . .	1888	Apr. 1892	"
†Hon. Charles G. Pope, chairman ex-officio . . . . .	1889	1891	"
†Nathan H. Reed (president 1893 to April 1894) . . . . .	1890	Apr. 1894	"
†Hon. William H. Hodgkins, chairman ex-officio . . . . .	1892	1895	"
†James G. Hinckley . . . . . May,	1892	1894	"
†Albert W. Edmands . . . . . May,	1893	Oct. 1918	(Died)
†Herbert E. Merrill . . . . . May,	1894	1909	inclusive
†Ezra D. Souther . . . . .	1895	Feb. 1898	(Died)
Hon. Albion A. Perry, chairman ex-officio . . . . .	1896	1898	inclusive
James H. Butler . . . . . March,	1898	1899	"
Hon. George O. Proctor, chairman, ex- officio . . . . .	1899		
Henry F. Curtis, M. D. . . . .	1910	to date*	"
Philip Koen . . . . .	1912	Nov. 9, 1916	"
Michael Coll . . . . . November,	1916	to date*	"
Fred E. Durgin . . . . . October,	1918	to date*	"

Table No. 8.

## RECAPITULATION (Miscellaneous).

Expenditures and transfers . . . . .	\$87,922 69	
Reimbursements and refunds . . . . .	33,869 63	
	<hr/>	
Net cost to city . . . . .		\$54,053 06

\* Present Member.

† Deceased.

Respectfully submitted,

WM. E. COPITHORNE,

General Agent.

## REPORT OF WARDEN OF CITY HOME.

City Home, January 1, 1922.

To the Overseers of the Poor, Somerville, Mass.:—

Gentlemen, — I submit the following as the report of the Warden of the City Home for the year ending December 31, 1921:—

Table No. 1.

Number of weeks' board of inmates . . . . .	2,069-1
Number of males admitted during 1921 . . . . .	14
Number of females admitted during 1921 . . . . .	11
Number of males discharged during 1921 . . . . .	10
Number of females discharged during 1921 . . . . .	14
Number of males supported during 1921 . . . . .	31
Number of females supported during 1921 . . . . .	32
Number of males died during 1921 . . . . .	3
Number of females died during 1921 . . . . .	10
Number of inmates in home, December 31, 1921 . . . . .	32

## City Home Hospital.

Number of weeks' board . . . . .	537
Number of patients admitted . . . . .	31
Number of patients in hospital, December 31, 1921 . . . . .	10

Table No. 2.

Reimbursements . . . . .	\$7,457 77	
Net expenditures . . . . .	7,612 04	
		<u>\$15,069 81</u>
Appropriation . . . . .	\$15,625 00	
Balance . . . . .	555 19	
		<u>\$15,069 81</u>

Respectfully submitted,

J. FOSTER COLQUHOUN,

Warden.

## REPORT OF THE CITY PHYSICIAN.

OFFICE OF THE CITY PHYSICIAN,

Somerville, January 1, 1922.

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—The work of your City Physician during the year 1921 is presented in the following abstract:—

Office consultations and treatments . . . . .	290
Total outside visits . . . . .	1251
Confinements . . . . .	10
Vaccinations . . . . .	49
Visits at City Home . . . . .	132
Attended at police station . . . . .	20

## Examinations:—

For legal department . . . . .	12
For highway department . . . . .	17
For police department . . . . .	33
For fire department . . . . .	19
For water department . . . . .	2
For soldiers' relief department . . . . .	1
For pension . . . . .	24

Respectfully submitted,

C. CLARKE TOWLE,

City Physician.

## REPORT OF RECREATION AND PLAYGROUND COMMISSION.

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To the Honorable, the Mayor, and the Board of Aldermen, City  
of Somerville, Massachusetts.

Gentlemen : —

The Recreation and Playground Commission submits herewith a report of its acts for the municipal year 1921. The work of this Commission has been limited in kind and in extent by the resources which it could use not by its inclination for service or by the opportunities in its field of action. As the opportunities for beneficial and constructive effort so far exceeded the resources available for dealing with the matter, it became necessary to carefully select the things to be done and to conduct those enterprises only to such an extent as was warranted by the means at hand.

In making a plan for the year it was decided to carry on the lines of work established during the preceding year and to amplify that work to whatever extent it seemed wise and desirable. In addition to this policy the Commission proposed to promote co-operation among the various departments of City Government whose functions in any way affect public recreation and to assist in whatever way it could the general cause of recreation throughout the city. In addition to the direct appropriation made by the City Government, which this year amounted to \$6,000, the Commission had the help of \$1,030.75 furnished it by the Somerville Playgrounds Association and the co-operation and assistance of the various women's clubs of the city and of the several departments of the City Government.

The three major activities promoted by the Commission during the year were social centers, summer playgrounds, and school gardens. At the beginning of the year social centers were conducted several nights a week in the Clark Bennett and Bingham Schoolhouses. The Neighborhood House on Maple Street was conducted partly under the Commission and partly under the control and direction of the Ways and Means Committee representing the various women's clubs of the city. This work was carried on for the Commission by Miss Minnette Zuver who had been engaged for this work during the preceding year. Under her leadership, classes for adults were

organized and carried on in the two schoolhouses already named. These classes attracted a large attendance and developed a good show of interest. Entertainments and lectures were given from time to time. The response to these conferences was such as to show conclusively that the people in the neighborhood of these schoolhouses were ready and anxious to take advantage of the opportunity for improvement and social recreation which such meetings afford. There were imperfections in the service rendered to the community by these undertakings which were inevitable under all of the circumstances of the case. The schoolhouses themselves are not well adapted to social center activities and the resources in money and personal services were too limited to provide adequately the things necessary to the success of the work. As an outcome of all these conditions, much was accomplished of a distinct benefit to the community while imperfections appeared which were subjects for criticism and improvement. It was clearly demonstrated that well-selected and well-conducted enterprises of an educational and recreational character would receive a hearty welcome in these neighborhoods but on May 1, 1921, the social worker resigned to accept a more important position elsewhere and since that time the Commission has allowed the social center work to lapse.

The second line of work carried on by the Commission was the supervised summer playgrounds. In this field, as its name indicates, the chief function of this work is to provide trained supervision on certain playgrounds in the city during the summer months. In addition to this provision, the Commission has furnished playing material and some equipment. This year the attendance was large and the services of the play supervisors were of a high and interesting order. The closing demonstration held on Broadway Park on the evening of August 23 was one of the most interesting ever held in connection with the summer playground work. All in all, the playground season of 1921 was, from the amount of money spent upon it by the Commission, one of the most successful ever conducted under the control of the City. Full particulars of this activity will be found in the report of Stephen H. Mahoney, Supervisor of Playgrounds, which is submitted herewith.

The third line of work promoted by the Commission jointly with the School Committee was the school gardens. Again the use of certain public parks for school gardens was authorized by His Honor, the Mayor. The Commission employed again this year as Supervisor of Gardens, Mr. W. B. Moore, whose efficiency in this office is of the highest order. School



gardens were conducted in eleven plots so distributed as to make a school garden accessible in every part of the city. This work was a great success and is fully described in the report submitted by Mr. Moore. The benefit of this work has been not alone in the value of the crops raised by the children but in the fact that the gardens have provided a live and beneficial interest for the children during the long summer vacation.

In certain other ways encouragement of recreation has been given by the efforts of the Commission. The general subject of public recreation in Somerville, however, is not fully comprehend by this account of the work of the Recreation and Playground Commission. Other public agencies are related in one way or another to the recreation problem in this city. Those which have worked in co-operation with this Commission are the following:

Commissioner of Public Buildings, who has charge of schoolhouses, school yards, and the Somerville Beach.

City Engineer, who has charge of public parks and public playgrounds. School Committee, which has direct charge of school children, school activities, physical training, gardening, and canning.

Water Commissioner, who has control of wading pool on Trum Playground.

Warden of the City Home, who has charge of the City Farm.

Chief Engineer of the Fire Department, who has charge of the apparatus which was used frequently during the hot weather to give street baths to the children of the playgrounds.

Chief of Police, who has given police protection whenever needed.

As the year closes, the Commission has made provision for building hockey rinks in various parts of the city. One has been built in Lincoln Park, one on Trum Playground, one in Fellsway East, and one in the Hodgkins schoolyard. Two others are to be built in other parts of the city. These rinks are provided for the use of organized hockey teams from the High and Junior High Schools and for the use of the public when they are not engaged by the schools. The maintenance of the rinks on the public areas will be assumed by the Engineering Department. The maintenance of the rink in the school yard will be assumed by the Public Buildings Department. It is hoped by the Commission that these rinks will increase the opportunities for the enjoyment of that most invigorating and delightful winter sport — skating. Unlike most other communities Somerville has no natural ponds and waterways for skating. The development of this sport, therefore, is wholly dependent upon artificial ice on public areas. The Engineering Department has done a good work in past years in flooding spaces for ice areas but the new rinks will add much to the possibilities of enjoying this sport.

The Commission wishes to put on record its conviction that recreation both for adults and for children is an important item in public policy and one which should receive careful and consistent treatment at the hands of the City Government. How one spends his leisure time determines to a considerable extent the kind of a person he is or will become. The opportunities for intellectual, social and physical recreation are provided either by public or private agencies. Inasmuch as private recreational agencies are conducted wholly for commercial purposes, it is not safe to leave the needs of a community wholly to be satisfied in that way. The Commission believes that Somerville has made a good beginning in this particular. Its parks and public areas are devoted to public uses. Its public bathhouses, its bathing beach and bathhouse, its schoolhouses which are increasingly used for social and recreational purposes, are all contributions to the up-building of a good social order by means of wholesome and well-conducted recreation. For the future, the Commission believes that all of these agencies should be brought into harmonious co-operation to the end that the largest public service may be secured therefrom. It believes that the beginnings already made should be continued in well-planned policies for the future.

At its meeting on December 16, the Commission voted to make the recommendations given below. Some of these can be made without expenditure of money while the others will cost little compared with the benefits derivable therefrom.

The Commission recommends that the Kent Street Playground be enlarged by the inclusion therein of the roadway of Kent Street. This roadway is now practically waste land as there is very little need for its use by vehicles. A right of way over the playground for pedestrians would preserve the benefits of a short-cut from Somerville Avenue to the subway. This change would add materially to the size of this playground, thereby increasing greatly its value to the neighborhood. As this park furnishes the only open space for the children and the adults of this densely populated section, any improvement of the playground conditions would be beneficial.

The Commission recommends that the "ledge lot," so-called, the site of the Western Junior High School, be improved with a view to its use for sports and games. There is space enough here to furnish a ball field which could be used for baseball or football and to furnish room for tennis and other smaller games. The Commission goes on record as opposing the building of a roadway or sidewalk through this area in such a way as to interfere with the uses just named. A

sidewalk along the westerly borders of this field, however, would be unobjectionable.

The Commission also recommends that Dilboy Field be improved in accordance with the plans prepared by the Engineering Department, and that a suitable recreation house be erected.

There are other projects for the benefit of the public which the Commission has considered and which it would like to have put into effect but as its work is completed with this report, it does not deem it appropriate to enlarge upon such plans for the future. The Commission believes that in view of the present state of public interest in this work there will be no retrogression but that there will be a forward movement which will have for its purpose the improving of all the recreational facilities under the control of the City Government.

Respectfully submitted,

CHARLES S. CLARK,

Supt. of Schools, Chairman.

MRS. A. H. WEEKS,

MRS. CHARLES E. MONGAN,

ERNEST W. BAILEY, City Engineer,

J. FOSTER COLQUHOUN, City Warden,

GEORGE L. DUDLEY,

*Commissioner of Public Buildings, Secretary.*

## REPORT OF SOMERVILLE PLANNING BOARD.

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December 31, 1921.

To His Honor, the Mayor, and Board of Aldermen.  
Gentlemen:

As required by the provision of Chapter 494 of the Acts of 1913 the Planning Board herewith submits its annual report together with recommendation, for the year 1921.

The personnel and organization of the Board have been the same since the preceding year, and the vacancy then existing still remains unfilled.

The several subjects considered in this report have been arranged in the same general manner as followed in previous reports of the Board, with the addition of new subjects not treated heretofore.

### Fire Protection.

The Planning Board has recommended the establishment of Fire Districts in its reports for the years 1915, 1916, 1917, 1918, 1919, 1920 and again calls attention to the need for the establishment of Fire Districts by ordinance of the City Government. Unless a start is made in this direction before building operations begin again, it will be very difficult, if not practically impossible to establish Fire Districts in or about the public squares of the city.

Steps should be taken without delay to prevent the erection of any more wooden buildings on the land adjoining the several public squares of our city.

The Board is well aware of the difficulties to be overcome, and that successive Boards of Aldermen have considered the subject, but believes the time opportune for action by the present city government.

The Board therefore recommends that the subject of Fire Districts receive careful consideration by the present city government, and hopes that some definite action be taken by the Board of Aldermen.

### Public Parks and Playgrounds.

The Board again respectfully suggests that the land used as a playground in Ward Five and known as "Richard Trum Playground" be laid out as a public park, in order to provide a permanent playground for the people of that section of our city. It is also necessary that the playground be provided with

a locker building, similar to the one in Lincoln Park, for the convenience of those who use the park for recreation and amusement. At present it is necessary to use the City Stables, which is a very unsatisfactory arrangement.

The Board also recommends that small playgrounds be established in different parts of the city for the exclusive use of small children.

Although the Board has called attention to the necessity of beautifying the only bathing beach in our city, no improvements of any importance have been undertaken. The beach still needs to be cleared of mud, and some sand should be dumped there, in order to make it possible for the people who use the beach to do so in comfort. This improvement should not be very expensive, and is needed beyond any reasonable doubt.

#### Bridge Street Widening.

The Board has recommended in its reports for the past five years that the city government should take some action tending toward the widening of Bridge Street.

Bridge Street is one of the chief highways leading to Somerville, and has been the scene of many accidents resulting in the congestion of the street car traffic, as well as automobiles and teams. It is the only exit and entrance for the main line of street cars running on Highland Avenue and Somerville Avenue. It is barely thirty feet wide, and should be at least one hundred feet wide to properly care for the heavy traffic going over it every day. Now is the time to widen it before the old dilapidated buildings are town down, and replaced with new structures. If the City of Cambridge is unable to co-operate, resort should be had to the Legislature for a remedy.

#### Clean-up Week.

The Board recommends that the city government set apart a week to be known as "Clean up and Paint up Week," as has been the custom in previous years.

#### Survey of City.

The Board is of the opinion that it is desirable that a general survey of the city be made for the purpose of classifying the various kinds of industrial enterprises, and their location, also the location of desirable industrial sites. This survey would also show the various parks, public buildings, and purely residential districts of the city.

The Board therefore recommends that a sufficient sum be appropriated for the use of the Planning Board to enable it to carry out this plan. The value of a survey of this nature cannot be over estimated.

#### Bill Boards.

The attention of the city government is directed to Chapter 545 of the Acts of 1920, which provides for the regulation of advertising signs and devices on public ways.

The enforcement of this law will do much to cure the bill board evil, and in all cases where a bill board may be considered a nuisance a hearing may be had before the Department of Public Works on the question of its removal. The removal rests solely in the discretion of the Department of Public Works.

#### Zoning.

On June 4, 1920 an Act was passed by the Legislature of the Commonwealth, which appears in the Acts of 1920 as Chapter 601, entitled "An Act to authorize cities and towns to limit buildings according to their use and construction to specified districts." The zoning movement is one which has spread rapidly throughout the country, and has been put into practice in Cambridge, and is also in effect in some parts of Brookline, and in over forty important cities of our country, including the large cities of New York, Washington and Milwaukee.

The constitutionality of the law has been decided by the Supreme Court, and the Planning Board is of the opinion that this year's city government should do something to work out a zoning plan in the City of Somerville, under the direction of the Planning Board.

The old motto "A place for everything and everything in its place" should be made to apply to buildings erected within the city limits. In many instances citizens have bought houses for homes, only to find within a few short years a factory or a business block erected next to their dwelling house, greatly depreciating its value, and spoiling its use as a home. To correct a wrong such as this the zoning law was passed by the Legislature.

The Board recommends that a zoning ordinance be drafted by the Board of Aldermen, after due consideration, and public hearings, in order to determine what is best in the matter of zoning for a city of the size of Somerville.

The Board is of the opinion that a great improvement can be made by setting off some districts for residential pur-

poses exclusively, and other districts for mixed business and residential purposes, until such time as the character of the district changes. The Board also believes that some districts should be unrestricted because circumstances may exist in certain districts at the present time that would make it impossible to work out a satisfactory restriction.

The real object of the zoning system is that it seeks to create permanent residential districts. Then if a person purchases a house in such a district, he will be protected by law from the encroachment of business blocks or factories.

The zoning system would also take care of a matter which is continually coming before the city government for action, and that is, the question of the advisability of allowing a license for a public garage. The Board is of the opinion that public garages should be restricted to certain districts, and not allowed to be erected in a purely residential district.

The Board is also of the opinion that the zoning system, if adopted, would protect the finances of the City, by preventing rapid depreciation in residential real estate values, which inevitably follows a change in the character of the neighborhood caused by the erection of public garages, or any other building of a business nature. The Board believes that it would be for the benefit of various business enterprises to be in a certain district, and would have the effect of increasing the value of real estate for business purposes.

This is a matter which deserves serious consideration, and should not be acted on hastily. Therefore the Planning Board respectfully requests that the Board of Aldermen authorize it to submit a zoning plan to be used as a basis for discussion, in order to arrive at a satisfactory arrangement of our city. The proposal of the plan can do no harm, and will at least raise the question of the advisability of adopting a plan for the arrangement of restricted districts in our city.

#### Appropriation.

The sum of Fifty dollars was appropriated for the Planning Board for the year 1921. The Board realizes that the city government is desirous of being economical with the tax payer's money, but respectfully calls the attention of Your Honor, and Members of the Board of Aldermen to the fact that it is impossible for the Planning Board to attempt to draw up plans, or draft ordinances such as a Planning Board should do, in order to be helpful to the city government, unless the Planning Board receives a sufficient appropriation to enable it to at least make a start on these various projects.

The Board is anxious and always has been willing to give its time free to the city, but believes that the city government should be more generous in its appropriation. In looking over reports received by the Board from various city and town Planning Boards, the Board is unable to find but one or two instances where towns nowhere near the size of Somerville have appropriated the sum of \$50. In practically all cases the appropriation has been at least \$200.00 up to \$2000. Whatever sum of money is appropriated by the city government, the Board wishes to assure Your Honor, and Board of Aldermen, that it will not be wasted, but will be used to formulate various plans, and collect information which will be of great value to the city, and to the business men of the city. The work of the Planning Board is a work for the future. The results obtained we believe will be for the advantage of all citizens, and whatever sum is appropriated will be carefully used.

Respectfully submitted,

WILLIAM F. RILEY, Chairman

PAUL R. VALENTINE

GEORGE J. RAUH

DAVID J. KELLEY, Secretary



## REPORT OF THE CITY ENGINEER.

---

OFFICE OF THE CITY ENGINEER,

CITY HALL, SOMERVILLE, January 19, 1922.

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen, — In accordance with the city ordinances, the following report of the work done and expense incurred for the year ending December 31, 1921, by the Engineering Department and appropriations under my charge and supervision, including the accounts of city engineer, sewers construction, sewers maintenance, parks maintenance, playgrounds maintenance, and other public works, is herewith presented:—my twenty-sixth annual report as city engineer.

### ENGINEERING DEPARTMENT.

In previous reports the general work, charter requirements and city ordinances relating to the duties of the city engineer have been fully described — he shall be consulted in relation to public improvements of every kind when the advice of a civil engineer would be of service — and no pipes, conduits, railway tracks, poles or other structures shall be placed beneath or upon the city streets unless a plan showing proposed location thereof has first been approved by the city engineer.

On account of the excessive cost very little new construction work has been attempted, the greater part of the work done, being for repairs and maintenance in the various divisions.

Divisions	Appropriations and Credits		Expenditures	Balances
City Engineer . . . . .	\$14,545 00	\$230 00	\$14,771 07	\$3 93
Parks Maintenance . . . . .	10,950 00	200 00	11,149 59	41
Playgrounds Maint. . . . .	11,650 00	368 88	12,018 82	06
Sewers Maintenance . . . . .	23,930 00	120 81	24,050 59	22
Sewers Construction . . . . .	5,555 62	130 04	5,643 19	42 47
Stock Account . . . . .		786 28	363 63	422 65
			\$67,996 89	

(Expenditures in the various divisions are shown in detail in the City Auditor's annual report).

### CITY ENGINEER DIVISION, CLASSIFICATION OF EXPENSES, 1921.

Sewers and Storm Drains, — comprising surveys, estimates, profiles, lines, grades, titles, plans, assessments, all engineering work relating to same and supervision . . . . .	\$895 24
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Highways, — comprising plans, estimates, titles, profiles, lines and grades, inspection of paving and all other engineering work relating to the department . . . . .	1,751 50
Sidewalks, — comprising profiles, lines, grades, measurements, inspection, titles, costs and assessments . . . . .	423 85
Water Works, — comprising lines, grades, locations of mains, gates, hydrants, services and other matters relating to the department . . . . .	611 42
Parks and Playgrounds, — comprising surveys, plans, estimates, profiles, and grades, including laying out of parks, playgrounds, boulevard and supervision . . . . .	236 99
Public Buildings, — comprising surveys, estimates, lines and grades, and other work relating to constructing and laying out of grounds . . . . .	47 25
Street Numbering, — comprising locations of buildings, plans, assigning street numbers, etc. . . . .	233 22
Street Lines and Grades, r comprising establishing of lines, grades, and miscellaneous data given parties for building and grading . . . . .	222 49
Bridges and Grade Crossings, — comprising surveys, plans, profiles, estimates, lines and grades, etc. . . . .	117 97
City Survey, — comprising establishing of street lines, acceptance plans, and miscellaneous survey work for city map, etc. . . . .	950 01
Middlesex Registry and Land Court, — comprising copying of plans, and abstracts from deeds and examination of titles filed at East Cambridge, also tracing of street acceptance and sewer taking plans filed for record . . . . .	114 09
Private Corporations, Railway, Telephone, Electric Light and Gas Light Companies, — comprising grades, plans, profiles and office notes, locations of poles and conduits . . . . .	49 71
Setting Stone Bounds and Brass Rods, — defining street lines and city boundary lines . . . . .	78 40
Office Work, — comprising record of all locations, indexing, typewriting, bookkeeping, calculations, reports, and general draughting . . . . .	1,797 99
Miscellaneous Work, — comprising preliminary surveys, designs, sketches, etc., relating to various schemes for committees . . . . .	131 63
Holidays, Vacations and Sickness . . . . .	1,268 38
National Guard Duty . . . . .	65 00
General Departmental expenses (all divisions) — comprising city engineer's salary, auto, telephone, car fares, postage and incidentals . . . . .	5,775 93
Total . . . . .	<u>\$14,771 07</u>

Value of field instruments, tools and office instruments, \$1,500.00

The total cost of maintaining the Engineer's Division since it was established, 1872-1921, both years inclusive, has amounted to \$424,861.00.

Six assistants have been employed the entire year, on engineering work.

A number of plans were made during the year for street acceptance and ten streets have been accepted as public highways, under the betterment act.

There are plans for acceptance of eleven private streets on file in this office, that for various reasons have not been made public ways.

Many streets and avenues in the city are of the same, or very similar name and could be changed at the present time (renamed in memory of deceased veterans of World War) eliminating the confusion now existing.

Some of the old main thoroughfares should be re-numbered their entire length, so as to eliminate half numbers and letters now being used; and certain streets where traffic is congested should be made "one way" streets.

STREETS ACCEPTED AS PUBLIC HIGHWAYS IN 1921, UNDER THE BETTERMENT ACT.

Name of Street	Ward	From	To	Width in ft.	Length in ft.	Date of Acceptance
Bailey street . . . . .	7	North street . . . . .	West Adams street . . . . .	40	420	December 27, 1921
College Hill Road . . . . .	7	North street . . . . .	Around to Conwell ave. . . . .	40	449	December 9, 1921
Eustis street . . . . .	6	Beacon street . . . . .	Cambridge Line . . . . .	30	146	December 27, 1921
Magnus avenue . . . . .	2	Washington street . . . . .	Lewis street . . . . .	40	429	December 9, 1921
Maple avenue . . . . .	4	School street . . . . .	Near Marshall street . . . . .	40	319	December 9, 1921
Mead street . . . . .	7	Moore street . . . . .	Near Cameron avenue . . . . .	40	345	December 9, 1921
Pennsylvania avenue . . . . .	1	Cross street . . . . .	Wisconsin avenue . . . . .	40	350	December 9, 1921
Pitman street . . . . .	6	Beech street . . . . .	Spring street . . . . .	30	377	February 11, 1921
Rose street . . . . .	2	Washington street . . . . .	Lewis street . . . . .	40	450	December 9, 1921
West Quincy street . . . . .	7	Bailey street . . . . .	Medford Line* . . . . .	40	292	December 9, 1921
<b>Total . . . . .</b>			<b>(0.677 miles) . . . . .</b>		<b>3577</b>	

Summary. — Public streets 85.281 miles (includes 1.406 miles of City Boulevard and Park Roadways, 2.331 miles of State Boulevard (Metropolitan Park Commission), and 1.596 miles State Highway); private streets 15.502 miles.

Total length of streets in the city 100.783 miles.

In the 1910 report, tables were published showing old names of certain streets as formerly known, and names of public squares in the city.

(Name of Oak Square changed to Wilson Square, — 1918.)

(Name of Metropolitan Square changed to Gerrior Square, — 1921.)

#### Length of Public Streets in Each Ward.

	Miles
Ward one . . . . .	10.798
Ward two . . . . .	9.739
Ward three . . . . .	7.630
Ward four . . . . .	10.026
Ward five . . . . .	12.388
Ward six . . . . .	13.788
Ward seven . . . . .	20.912
	<hr/>
Total length of public streets in the city . . . . .	85.281

Street "Markers" — (Stone Bounds) (Brass rods set in cement sidewalks).

1921 — stone bound set Myrtle Street — east side at Perkins street.

City Line bounds No. 10 and No. 19 on Cambridge boundary line were raised to grade and set in concrete.

Stone bounds have been rest in Portland cement concrete at a number of street intersections and angles, to define and preserve the true lines of public streets, and this work should be continued as much as possible each year. These bounds are also of great convenience in establishing permanent "Bench Marks" throughout the city for giving grades.

In the 1907 report a table was compiled from old reports, maps, and office notes, showing the location of stone bounds; the year when set, and whether existing or removed from 1860 to 1907 inclusive, and additional lists in the reports of 1908, 1910, 1911, 1913, 1919, 1920 and 1921 will show location of all street bounds set to 1922.

There are at the present time a total of 658 bounds or brass rods set for defining street lines.

Four new streets have been constructed, under the betterment act, with a bituminous macadam wearing surface, con-

crete gutters and granite edgestones, a total of 1,624 feet (.308 mile) ; the work being done by contract.

The average cost of this type of construction complete, for these streets, was \$9.70 per linear foot, a high rate, on account of the unusual cost of materials and labor.

Assessments have been levied on abutting property owners for approximately one-half of the cost of constructing these streets.

New granite block pavement has been laid on a concrete base with a cement grout in sections of Linwood street, Beacon street and Tufts street ; 9,898 square yards (2,924 feet in length) of this type of pavement were constructed by contract at \$7.45. per yard complete.

In constructing the granite pavement, new streets and sidewalks 3,010 feet (0.570 mile) of new edgestone were set.

The total length of permanent paved streets in the city amounts to 18.07 miles.

Permanent street pavement should be extended as rapidly as possible, using old granite block, re-cut and laid on a concrete base, the best and most economical pavement for this city.

Grades were given and measurements taken for the reconstruction of ten streets with a bituminous wearing surface, a length of 8,765 feet (1.66 miles).

TABLE OF STREET CONSTRUCTION.

	Square yards	Miles
*Streets paved with granite blocks . . . . .	140,987	6.14
**Streets paved with concrete . . . . .	23,990	1.42
†Streets paved with asphaltic top . . . . .	42,215	2.59
Streets paved with vitrified brick . . . . .	20,958	1.29
Streets paved with "Bi-co-mac" . . . . .	10,100	0.77
Streets paved with bitulithic (patent) . . . . .	3,059	0.06
Combination pavement (concrete base with bituminous top) . . . . .	87,200	5.80
‡Streets macadamized (bituminous binder) . . . . .		43.55
Streets macadamized (water bound) . . . . .		23.07
Streets graveled or unimproved . . . . .		16.09
Total . . . . .		100.78

\*Also 31.9 miles (single track) electric railway paved with granite, asphalt, bitulithic, etc.

\*\*Includes 0.42 mile state highway.

†Includes 1.16 miles of state highway.

‡Includes 1.406 miles of city boulevard and park roadways and 2.331 miles of state boulevard (Metropolitan Park Commission).

There are a number of very dangerous crossings in this city at intersecting public thoroughfares, where the corners should be cut back and the roadway widened for the safety of traffic and improvement in appearance.

Lines and grades were given for constructing sixteen new granolithic sidewalks, 4,647 square yards (1.4 miles), and assessments computed, the abutting property owners paying one-half the cost.

In laying out new work, under orders passed for construction of sidewalks, etc., occasionally portions of buildings and fences are found to be encroaching on the sidewalk and on some of the old rangeways these encroachments have existed for many years; as improvements are made, the full width of sidewalk should be maintained.

In sections of the city where brick sidewalks have been laid many years, and must necessarily be relaid on account of deterioration and unevenness, granolithic should be substituted in place of brick.

Miles of Edgestone, Granolithic, Gravel and Brick Sidewalks in Each Ward.

	Edgestone	Gravel Sidewalk	Brick Sidewalk	Granolithic Sidewalk
Ward one . . .	19.925	3.615	12.093	4.758
Ward two . . .	16.807	6.591	6.423	3.609
Ward three . . .	14.325	0.840	11.572	1.911
Ward four . . .	15.309	1.334	9.993	3.914
Ward five . . .	22.679	4.509	12.155	5.946
Ward six . . .	25.201	4.099	10.678	11.269
Ward seven . . .	32.891	2.018	8.389	22.594
	<hr/>	<hr/>	<hr/>	<hr/>
	147.137	23.006	71.303	54.001

(Details, etc., streets and sidewalks in report of Street Commissioner).

The Boston Elevated Railway Company has petitioned for a relocation of tracks in certain streets and has made extensive repairs in its roadbed in this city during the past year, replacing long sections of old tracks with new and heavier rails. There are, however, a number of miles of trackage, orders having been granted for widening in the city's main thoroughfares, where the old granite block pavement, within the railroad location, should be relaid and grouted with cement and additional catch basins constructed between the rails to relieve the flooding of sections of certain streets in times of heavy storms. There are 32 miles of electric railroad (single track length) at the present time in the city's streets. A considerable

length of high power cables have been placed in underground conduits.

Plans have been made by the various companies and filed in the city engineer's office, showing the locations of gas mains, poles, tracks and conduits in this city, which have been granted by the board of aldermen during the year; and the work of placing overhead wires in conduits, underground, and removing poles from the streets should be extended as rapidly as possible.

In the city's squares overhead wires should be placed underground, immediately, and practically all poles (except for lights) removed—on the main thoroughfares many of the existing poles should be eliminated, at the present time, being unnecessary.

A special ordinance should be enacted concerning city inspection on all underground work done by private companies or corporations and regulation as to method of street openings.

At the present time there are underground in the city's streets 17.64 miles of telephone conduits, 12.42 miles of electric light conduits, 4.25 miles of electric railway conduits; and about 9.7 miles of underground conduits used for the city's wires.

The Cambridge and Charlestown gas companies have respectively 63.79 and 28.1 miles of gas mains in the city's streets.

Lines and grades have been given for laying new city water mains. New house services, many gates, hydrants, water posts and blow-offs have been located and recorded, sketches and plans made showing the same, and the water works maps corrected to date; also a large number of old water services where new meters were installed, have been located and recorded.

A number of the locations of old hydrants, gates, etc., have been found to be incorrect, a few having been removed entirely; a new survey of the entire distribution system should be made and the maps and office records compiled. (Length of water mains, details, etc., in report of Water Commissioner).

Lines and grades have been given for the erection of city buildings and plans and sketches made for the laying out of surrounding grounds:—a special plan being made showing a proposed development of the West Somerville Junior High School grounds.

Plans have been made where accidents have occurred on the city work, or where boundaries were in dispute and special plans and data prepared for the city solicitor's use in court



cases and Federal, State and Municipal hearings attended where information was required.

Considerable data has been compiled relating to the various highway bridges in this city for the State Department of Public Works.

All plans of estates in Somerville recorded at the Registry of Deeds, East Cambridge, including land court plans, have been copied, also titles examined, abstracts from deeds made for the purpose of assessments, and the proportional part of the cost of new work computed, and schedules of assessments made out showing the property owners.

Totals number of plans on file in the office approximately eight thousand two hundred and fifty.

A skeleton map of the city has been made for the Somerville Board of Trade showing steam and electric car lines, principal streets, public buildings and locations of principal industries:—also a street map for the Automobile Association showing the various routes for auto traffic through the city, details of pavement, land marks, etc.

A plan and data has been compiled showing a proposed widening of Bridge street (East Cambridge) being the extension of Somerville avenue:—a much needed public improvement for relieving the present congested traffic and business.

Perambulation of the Somerville-Boston city boundary line:—In November, a committee appointed from each city, city engineers and street commissioners, examined the monuments and reference points defining the division line between these two cities and reported their findings in due form to the board of aldermen.

These boundary lines are perambulated every five years as prescribed by the statutes.

No action has been taken by representatives of the city governments of Somerville and Medford relative to the changing of the boundary line between the two cities. From the various studies presented, an exchange of territory can be made that would be equally advantageous.

In addition to the regular work of the department, considerable information and assistance has been furnished to the various city departments and citizens of the city; and special data for the development of real estate etc., given to private engineers, architects, and builders.

For the immediate improvement of conditions in this city the highway bridges and approaches over the steam railroads should be rebuilt the full width of the street at Broadway, (North Somerville) Prospect street and Washington street, near Union square; and the steam railroad bridge over

Washington street (East Somerville) reconstructed with increased head-room for street traffic,—the dangerous grade crossing at Park street should be abolished, as decreed by the courts a number of years ago, and a foot-bridge should be constructed over the railroad tracks making a connection between Wilson Square - Craigie Street and Stanford Terrace - Beacon street.

I respectfully refer to some of the more important recommendations and suggestions made in reports of the city engineer for a number of years past.

#### SEWER DIVISION.

The high cost of materials and labor has prevented the extension of the "separate system" sewers and likewise storm drain construction work, except that absolutely necessary.

Three sewers were petitioned for during the year.

#### Construction Account, Statement of Expenses, 1921.

Constructing sewers (separate system)	\$1,803 26	
Constructing storm drains	2,064 24	
Constructing catch basins	1,610 50	
Constructing manholes on sewers	255 76	
Cost of new work		\$5,733 76
Charged to other departments, materials, etc.	273 06	
Materials on hand December 31	422 65	
		695 71
<b>Total</b>		<b>\$6,429 47</b>

#### Credit.

Appropriations	\$5,555 00	
Balance unexpended, 1920	62	
		5,555 62
Received for materials, etc. (other depts.)	130 04	
Materials on hand January 1, 1920	786 28	
		916 32
<b>Total</b>		<b>6,471 94</b>
Balance unexpended (over to 1922)		\$42 47

Two sewers were constructed during the year and two storm drains, a length of 1854 feet of 18" - 15" - 10" and 8" pipe, the work being done by the city employing day labor. (See tabular statement for 1921, showing itemized account of work.)

The total length of the city's drainage system is 113.598 miles, and the entire cost of construction has amounted to

TABULAR STATEMENT OF SEWERS AND STORM DRAINS BUILT IN 1921.

LOCATION				ITEMS OF CONSTRUCTION AND COST													
Name of street	From	To	Built by	Material excavated	Average Cut	Size in inches	Length in feet	Manholes	Average Cost Manholes	Inlets	Pipe Sewer Cost per Linear Foot				Total Cost	Assessment	Cost to City
											Excavating, Refilling and Pipe Laying	Pipe, including sub-drain where laid	Engineering and inspection	Average Cost per Linear Foot			
Alewife Brook Parkway .....	High street	Northerly	City Day Labor	Hardpan	6'-1"	8	186.5	1	\$48.88	5	\$0.95	\$0.44	.....	\$1.64	\$311 41	\$287 00	\$24 41
North street Storm Drain, N. W. side	Powder House B'lv'ard	Raymond avenue	City Day Labor	Hardpan	5'-9"	15	158				5.60	1.08	0.43	7.11	1,230 75		1,230 75
Sterling street sewer .....	Alewife Brook P'k'way	Near North street	City Day Labor	Hardpan & Marl	6'-6"	8	747.2	4	81.71	53	0.95	0.50	0.11	2.00	1,491 85	1,488 35	3 50
Sterling street storm drain .....	Alewife Brook P'k'way	Easterly	City Day Labor	Hardpan & Marl	5'-4"	10	550	2		43	}	0.48	0.37	0.85	633 47		633 47
Sterling street storm drain .....	End of above	Near North street	City Day Labor	Hardpan & Marl	6'-0"	8	197.2	2		10							
1853.9 (.351 miles).															\$3,667 48	\$1,775 35	\$1,892 13

\*Cost of removing loam from trench to George Dilboy Field.

1920																	
Conwell avenue storm drain .....	North street	Hillsdale road	City Day Labor	Hardpan rock	5'-7"	12	623.6										
698.5 (.132 miles).															(\$200.02 Expended in 1921).		

1919																	
Elmwood street Storm drain .....	Tannery Brook storm dr'n	N. of Elmwood ter	City Day Labor	Sand	6'-10"	12	371.5										
371.5 (.070 miles).																	

Total length of public sewers in the city, January 1, 1922 . . . . . 502,599.3 ft.  
 Total length of private sewers in the city, January 1, 1922 . . . . . 34,748.0  
 Total length of sewers in the city, January 1, 1922 . . . . . 537,247.3 = 101,770 miles (32.521 miles separate system sewers)  
 Total length of storm drains in the city, January 1, 1922 . . . . . 62,452.5 = 11.828 miles  
 Total length of city drainage system, January 1, 1922 . . . . . 113.598 miles  
 Total length of Metropolitan Sewerage System running through the city . . . . . 3.475 miles



about \$1,362,272.00, exclusive of the amount paid to the state for assessments for the construction of the North Metropolitan sewerage system.

The city's assessment for the Metropolitan sewerage system for the past year was \$54,274.37 on construction account and \$57,457.22 for maintenance, an increase of \$20,900.00 over the previous year — an extraordinary and excessive assessment — more than 50 per cent additional, and the total amount paid the Commonwealth of Massachusetts for this state sewer has been \$1,612,937.64 (1892-1921, both years inclusive). The total length of the Metropolitan sewerage system mains running through the city amounts to 3.475 miles.

There are within the city's limits thirteen connections with the North Metropolitan state sewerage system, also four outlets through the city of Cambridge and three outlets through the city of Medford. The locations of the connections of the city's mains with the state sewer are shown in the 1912 report, and details of construction in previous reports.

The 1918 report contains a compiled table of Storm Drains constructed to 1919 showing length, cost, date of construction, district benefited, etc.

Eighteen catch basins have been constructed in the highways during the year, making a total of 2040 basins in the city for street drainage purposes, constructed and maintained as follows:—

By the city (sewer division):—

Located in streets and subways . . . . .	1,848 basins
Located in city boulevard . . . . .	33 "
Located in parks (17) and other city lots (12) . . . . .	29 "
	<hr/>
Total catch basins constructed and maintained by the city . . . . .	1,910
By Boston & Maine Railroad Company on railroad locations . . . . .	36 basins
By State, located in boulevards, and highways . . . . .	130 "
	<hr/>
	166
	<hr/>
Total catch basins in the city for storm drainage purposes . . . . .	2,078

The separate system sewers should be extended in the old sections of the city each year, as the appropriation will allow, and storm drains completed in certain localities as previously recommended:—especially in the North Somerville district, including the B. and M. railroad valley, and at the East Cambridge line extending from the Somerville avenue sewer and discharging into Miller's River. In July a terrific storm

occurred—recording the greatest rainfall ever known in this section of the country for a certain period of time.

The city's drainage system will be greatly improved when all the foregoing changes are made and construction work completed.

#### MAINTENANCE ACCOUNT, STATEMENT OF EXPENSES, 1921.

Maintenance of sewers, including cleaning and flushing (113.6 miles) . . . . .	\$6,122 13	
Maintenance of catch basins, cleaning and flushing (1,910) . . . . .	14,240 78	
Maintenance of storm water pump, Medford street . . . . .	101 08	
Changing line and grade and repairing catch basins . . . . .	462 50	
Changing line and grade and repairing manholes . . . . .	300 30	
Repairing old sewers . . . . .	428 11	
Inspection and location of house drains . . . . .	826 33	
New tools and supplies . . . . .	446 39	
Repairs of tools and property . . . . .	90 38	
Maintenance of sewer division yards . . . . .	897 96	
Telephone . . . . .	58 82	
Labor, teaming and materials for other departments . . . . .	75 81	
Total expenditures . . . . .		\$24,050 59
<b>Credit.</b>		
Appropriation . . . . .	\$23,930 00	
Transfer from Fire Department . . . . .	45 00	
Received from other departments . . . . .	75 81	
Total credit . . . . .		24,050 81
Balance unexpended . . . . .		\$0 22

Value of tools and property on hand in maintenance of sewers, \$2,000.00.

One employee, a faithful laborer for more than a quarter of a century in this division, was retired on a pension the latter part of the year, the first and only one in the department.

A permanent force of men, varying in number from ten to fourteen, and teams are kept continually at work flushing, cleaning and repairing the city's drainage system, catch basins, etc., the expense necessarily increasing yearly as lengths of sewers, drains and catch basins are added to the system, and the distance increased to the dumping places which are fast diminishing, only two being available at present.

This question of scarcity of dumping places has confronted the city for some time and various schemes have been considered for efficient and economical methods of disposal but no feasible plan has been provided.

Approximately 4,870 cubic yards of material have been removed from the catch basins during the year, at an average cost of about \$2.92 per cubic yard, and the average cost per mile for cleaning and flushing the drainage system, including catch basins, has amounted to about \$179.25. There are about twenty catch basins (average) to a mile of roadway in this city and the approximate cost of cleaning per basin has been \$7.50 the past year.

A number of repairs have been made and sections rebuilt on some of the old sewers, alterations made in the outlets and overflows, and extra manholes built for the purpose of improving the system.

Many catch basins and manholes have been repaired and grade or line changed.

One hundred and forty permits have been issued to licensed drain layers for connecting buildings with main sewers and storm drains, fifty-one being for repairs or alterations; all of the work being done under the supervision of the city's inspector.

Many of these repairs were made necessary by the growth of tree roots in the pipe. In several cases, these private drains were relaid with iron pipe and lead joints, which is the type of construction recommended by this department, where drain connections have become stopped on account of tree roots.

Certain persons are licensed as drain layers by the city and are under bonds, for the purpose of laying these private drains:—none others are permitted to do this work. Reference to data concerning each drain connection with the public sewer is on file in this office.

There are to date about 16,601 private house drain connections with the city's drainage system.

During the year the sewer division has done considerable miscellaneous work for other city departments and outside companies furnishing material and labor, and being partially reimbursed for the same.

Some of the old trunk sewers which were constructed many years ago are in a dangerous condition; sections, where the arch is badly cracked and liable to collapse any time, should be immediately rebuilt.

## PARKS AND PLAYGROUNDS DIVISION.

Under this division about seventy-four acres are maintained as parks and playgrounds, and approximately a mile of city boulevard; 64 acres are owned by the city and certain areas owned by private parties are turned over to the city for recreation purposes, also satisfactory arrangements have been made for a number of years whereby the city has the use of Tufts College playfield during the summer vacation months, and skating areas in the winter. Over 2,000 trees of various varieties are located on these grounds. These areas when completely developed will compare favorably with other cities in the vicinity.

Somerville Field has been re-named "George Dilboy Field" by an order of the Board of Aldermen, May 27, 1921.

Broadway Park has been re-named "Saxton C. Foss Park" by a similar order, December 27, 1921.

These parks were re-named in honor of Somerville young men who lost their lives in the World War.

The narrow strip of land situated in the center of Broadway between the Charlestown line and Fellsway East, about one-half mile in length, being a portion of a reserved area known as Broadway Parkway, has been reconstructed as a part of the street and is now used for travel of all kinds.

The parcel of land, known as Webster Avenue Playground, formerly a schoolhouse lot situated near the Cambridge city boundary line and containing about 11,000 square feet has been sold to private parties for building purposes.

## MAINTENANCE ACCOUNTS, STATEMENT OF EXPENSES, 1921.

\$369 76	Saxton C. Foss Park (formerly Broadway Park) (15.9 acres) . . . . .	\$1,814 98
	Broadway Parkway (1.6 acres) . . . . .	163 38
94 17	Central Hill Park (13.1 acres) . . . . .	1,747 25
1,218 68	Lincoln Park (7.2 acres) . . . . .	1,290 08
4 00	Prospect Hill Park (2.6 acres) . . . . .	1,525 03
	Tufts Park (4.5 acres) . . . . .	1,574 74
	Paul Revere Park (0.02 acre) . . . . .	15 00
	Belmont Street Park (0.4 acre) . . . . .	660 74
	Powder House Boulevard (0.09 mile long) . . . . .	1,033 23
	Powder House Square Parkway (0.2 acre) . . . . .	50 00
	Cemetery, Somerville Avenue (0.7 acre) . . . . .	175 00
7,678 98	Dilboy Field (formerly Somerville Field) at Alewife Brook ((11.5 acres) . . . . .	619 93
960 85	Richard Trum Playground, Cedar street and Broadway (4.3 acres) . . . . .	240 30
353 88	Playground, Glen street and Oliver street (0.9 acre + 1.5 acres of private land) . . . . .	5 78



360 34	Playground, Kent street and Somerville avenue (0.08 acre) . . . . .	158 15
49 65	Playground, Poplar and Joy street (0.5 acre) . . . . .	66 00
	Playground, Beacon street near Washing- ton street (0.2 acre) . . . . .	10 00
108 35	Playground, Mason street and Broadway Tennis Court (0.3 acre) . . . . .	
199 27	Playground, Fellsway East (2.5 acres private land) . . . . .	
312 64	Tufts College Land Summer and Winter Playground, (5 acres) . . . . .	
91 50	Plowing, harrowing and fertilizing Park and Playground areas for planting . . . . .	
216 75	Plowing, harrow, etc., and repairing Wading Pool for recreation Commission (Private Land) . . . . .	
	Total expenditure, maintenance (73.7 acres) 64 acres city property + 9 acres private land, 0.7 acre cemetery and 0.9 mile boulevard, and 0.54 mile parkway roads	
<hr/>		
\$12,018 82		\$11,149 59

## Credit.

Playgrounds and Recreation		Parks
	Appropriation for Parks . . . . .	\$10,950 00
	Transfer from City Clerk's Department . . . . .	200 00
\$5,650 00	Appropriation for Playgrounds (5050) (600)	
216 75	Received from Recreation and Playground Commission . . . . .	
32 13	Received from Celebrations Account . . . . .	
6,000 00	Transfer from Contingent Fund . . . . .	
120 00	Transfer from Recreation and Playground Commission . . . . .	
<hr/>		
\$12,018 88	Total credit . . . . .	\$11,150 00
<hr/>		
\$0 06	Balance unexpended . . . . .	\$0 41

The number of men employed has varied from seven to twenty.

The city's assessment for Metropolitan parks and boulevards for the year 1921 amounted to \$18,774.76 on construction account, and \$44,523.31 being the proportional cost for maintaining the same; in addition to this the city's special assessment for the Charles River basin construction and maintenance amounted to \$10,037.81; for the improvement of Alewife Brook and maintenance of same \$1,112.10 and for the maintenance of Wellington bridge across Mystic River, \$3,243.72. The total of these assessments amounts to \$77,791.61, being Somerville's proportional payment to the State on account of the Metropolitan park system for the year 1921.

The total assessment paid to the State for parks and boulevards amounts to \$915,527.23, January 1, 1922 and the length of State boulevard at present constructed in this city consists of seven-tenths of a mile of double roadway, located in the easterly part of the city and extending between Broadway and Mystic River, and one and two-tenths miles bordering Mystic River and Alewife Brook located in the westerly part of the city.

Athletics in general have been very active since the war and the baseball "diamonds," football fields, tennis courts and athletic apparatus located on the various playfields have been in constant use.

During the Daylight saving period "twilight" baseball has been exceedingly popular, practically all of the city's fields being used, and at Lincoln Park games were scheduled for every evening during the season with crowds in attendance. A total of 566 games were scheduled on the city's playfields during the year.

Special supervision was provided during the months of July and August, especially for the children's activities, to make the playgrounds popular and successful.

Part of the money generally spent for flower beds, shrubs, etc., for ornamentation of the various city grounds has been used in cultivating areas of park and playground land, and many school children have devoted their time and energies to the raising of vegetables.

The past year, this division of the engineering department has had the supervision and work of plowing, harrowing, and preparing the various parcels of land used, an expenditure of approximately \$308.00.

The original wooden seats built in 1911 as a part of the concrete grandstand erected at Dilboy Field (formerly Somerville Field) have been decaying for a number of years, on account of exposure to the weather, and had become unsafe in many places for seating the attending crowds. In June the old seats were torn down and replaced, being constructed of hard pine timbers and spruce plank at an expense exceeding \$6,000.00 the work being completed in time for the 4th of July celebration. This new lumber used should be creosoted and painted for the preservation of the structure.

Over the front entrance to this grandstand an appropriate bronze tablet has been erected and made a part of the concrete structure, suitably inscribed George Dilboy Field.

At this enclosed athletic field bordering Alewife Brook, a permanent concrete field house should be constructed with all modern equipment (about \$10,000 is available at the present

time) and the remaining area graded as soon as possible; when completed as originally designed the city will own one of the best recreation fields in the vicinity. (In the 1910 report, plan shows proposed complete laying out).

A number of large Poplar trees on the Powder House Boulevard were uprooted, large limbs broken and trees split during terrific wind, rain and ice storms causing considerable damage to abutting property, houses, etc., and costing approximately \$400.00 for removal — new hardy growth trees should replace these trees the entire length of the boulevard immediately.

Four hockey rinks of regulation size were constructed on certain parks and playgrounds and maintained during the winter season, many games being played, and larger areas on the various parks flooded for general skating.

Additional seats have been erected at Lincoln Park and Trum Playground and back-stops on the ball fields have been reconstructed and fences repaired, — additional equipment and shelters for children should be provided on some of the play-fields.

Shower baths have been maintained in the highway stable building at the Trum Playground and the baths located at Lincoln Park have been kept open certain evenings during each week; more of these baths should be established at the various fields. Wading pools for the children have been maintained at these two places.

All flag poles on the parks were repaired and painted— flags are displayed on all parks every day throughout the year.

Tennis courts have been in use at Mason Street playground, Dilboy Field, Broadway, Central Hill and Lincoln parks.

All tar concrete walks on Central Hill Park should be reconstructed and new walks laid out across Broadway Park for public convenience.

The Metropolitan District Commission have furnished band concerts, certain evenings during summer months, at Broadway Park.

The city has become so densely populated (averaging nearly 25,000 people a square mile) that some of the larger park areas should be more extensively utilized for public recreation and physical training purposes; on several of the play-fields concrete buildings should be constructed in place of some of the old wooden structures, additional apparatus provided on some of the principal parks and playgrounds for the smaller children's pleasure, where a regular park employee can have the care of the same, and some of the smaller play-

ground areas should be enclosed by wire fencing for the protection of children.

In certain localities of the city, well-lighted playgrounds, during the summer evenings, should be maintained for the young men and women working in the factories daily.

Paul Revere Park area should be enlarged by acquiring additional land and constructing a passageway across from Main street to Broadway, separating the city's park from the adjoining land, thereby preserving an historical spot on the top of Winter Hill for the future, also making a convenient connection for travel.

In connection with the departmental work the Recreation and Playgrounds Commission, the Playgrounds Association and Women's Clubs have been of great assistance in advising, directing and promoting the city's welfare. (Details, etc., in Commission' and Association reports).

The total yearly expenditure by the city departments and other Associations for recreation and play the past year has been approximately \$20,000.00.

#### Appended Table.

Annexed to this report is a table giving names of all streets in the city, public and private, lengths, widths, and the total mileage; in the 1910 report, tables were published showing old names of certain streets as formerly known, and names of public squares in the city.

Respectfully submitted,

ERNEST W. BAILEY,

*City Engineer.*

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF PUBLIC AND PRIVATE STREETS.

Street	From	To	Public or Private.	Width in Feet.		Length.	
				Public	Private	Public	Private
Abdell	Somerville ave	Southwesterly	Private.	25	.....	203	.....
Aberdeen road	Cedar st.	Highland ave.	Public.	40	449	.....	.....
Aberdeen rd. ex.	Angle	Westerly	Private.	30	.....	67	.....
Acadia pk.	Somerville ave	Northeasterly	Public.	40	256	.....	.....
Adams	Broadway	Medford st.	Public.	40	907	.....	.....
Adelaide rd	Somerville ave	Northeasterly	Private.	20	.....	138	.....
Adrian	Marion st.	Joseph st.	Public.	40	579	.....	.....
Albion pl.	Albion st.	Northeasterly	Private.	10	.....	166	.....
Albion ct.	Albion st.	Southeasterly	Private.	16	.....	116	.....
Albion	Central st.	Cedar st.	Public.	40	2,742	.....	.....
Albion	Broadway	Medford line	Private.	50	.....	100	.....
Albion ter.	Albion st.	Southwesterly	Public.	25	100	.....	.....
Aldersey	Walnut st.	Vinal ave.	Public.	40	508	.....	.....
Aldrich	Pearl st.	B. & L. R. R.	Public.	40	611	.....	.....
‡‡Alewife Brk pky	Mystic Val. pky.	Cambridge line	Public.	.....	4,775	.....	.....
Alfred	Broadway	Medford line	Private.	50	.....	50	.....
Allen	Somerville ave	Charlestown st.	Public.	25	644	.....	.....
Allen ct	Park st.	Northwesterly	Private.	20	.....	150	.....
Alpine	Cedar st.	Southeasterly	Public.	30	667	.....	.....
Alpine	Alpine st.	Lowell st.	Public.	40	688	.....	.....
Alston	Cross st.	Shawmut st.	Public.	40-30	757	.....	.....
Ames	Bartlett st.	Robinson st.	Public.	40	580	.....	.....
Appleton	Willow ave.	Liberty ave.	Public.	40	668	.....	.....
Arlington	Franklin st.	Lincoln st.	Public.	40	452	.....	.....
Arnold ave	Porter st.	Southeasterly	Private.	15	.....	127	.....
Arnold ct.	Beacon st.	Northeasterly	Private.	10	.....	115	.....
Arthur ct.	Linden st.	Easterly	Private.	about 10	.....	100	.....
Arthur	Broadway	Bonair st.	Public.	40	438	.....	.....
Ash ave.	Meacham st.	East Albion st.	Public.	40	554	.....	.....
Ash ave.	East Albion st.	Northeasterly	Private.	40	.....	151	.....
Ashland	Summer st.	Sartwell ave.	Public.	30	478	.....	.....
Atherton	Central st.	Spring st.	Public.	40	741	.....	.....
Auburn ave.	Cross st.	B. & L. R. R.	Public.	30	606	.....	.....
Austin	Broadway	Mystic ave.	Public.	40	716	.....	.....
Autumn	Broadway	Bonair st.	Public.	20	408	.....	.....
Avon	School st.	Central st.	Public.	40	1,360	.....	.....
Avon pl.	Cross st.	B. & L. R. R.	Private.	25	.....	150	.....
Bailey	North st.	West Adams st.	Public.	40	420	.....	.....
Banks	Elm st.	Summer st.	Public.	40	639	.....	.....
Bartlett	Vernon st.	Broadway	Public.	40	1,550	.....	.....
Barton	Broadway	Hamilton road	Public.	40	382	.....	.....
Bay State ave.	Broadway	Foskett st.	Public.	40	1,237	.....	.....
Beach ave.	Webster ave.	Columbia st.	Private.	about 20	.....	200	.....
Beacon pl.	Beacon st.	Northeasterly	Private.	15	.....	200	.....
Beacon	E. Cambridge line	Somerville ave.	Public.	66	6,007	.....	.....
Beacon ter.	Somerville ave.	Northeasterly	Private.	24	.....	110	.....
Bean ter.	Cutter st.	Southeasterly	Private.	16	.....	100	.....
Beckwith circle	Beacon st.	Southwesterly	Private.	28.5	.....	112	.....
Bedford	South st.	Cambridge line	Public.	30	165	.....	.....
Beech	Somerville ave.	Atherton st.	Public.	40	323	.....	.....
Belknap	Broadway	Hamilton road	Public.	40	449	.....	.....
Bellevue ter.	Albion st.	Northeasterly	Private.	20	.....	90	.....
Belmont	Somerville ave	Highland ave.	Public.	40	2,192	.....	.....
Belmont pl.	Belmont st.	Southeasterly	Public.	25	177	.....	.....
Belmont sq.	Belmont st.	Southeasterly	Public.	30	75	.....	.....
Belmont sq.	End of above	N. E. & S. W.	Public.	20	145	.....	.....
Belmont ter.	Belmont st.	Easterly	Private.	15	.....	137	.....
Benedict ave.	Broadway	Benedict st.	Private.	20	.....	200	.....
Benedict	Union st.	Austin st.	Public.	40	585	.....	.....
Bennett ct	Bennett st.	Prospect st.	Private.	10	.....	100	.....
Bennett	Prospect st.	Bennett ct.	Private.	40 to 25	.....	400	.....
Benton road	Summer st.	Hudson st.	Public.	40	1,208	.....	.....
Berkeley	School st.	Central st.	Public.	40	1,360	.....	.....
Berwick	Hinckley st.	Northwesterly	Private.	20	.....	170	.....
Bigelow	Boston st.	Munroe st.	Public.	50	208	.....	.....
Billingham	Broadway	William st.	Public.	40	563	.....	.....

‡‡Metropolitan Park Commission Boulevard.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public or Private		Width	Length	
			Public	Private	in Feet	Public	Private
Bishop's pl.	Glen st.	Easterly	Private.		10	....	75
Blakeley ave.	Fellsway east	Cross st.	Private.		40	....	630
Bleachery ct.	Somerville ave.	Fitchburg R.R.	Private.		30	....	450
Bolton	Oak st.	Houghton st.	Public.		40	476	....
Bonair	Cross st.	Walnut st.	Public.		40	1,535	....
Bond	Broadway	Jaques st.	Public.		40	655	....
Bonner ave.	Washington st.	Columbus ave.	Public.		40	376	....
Boston ave.	Medford line	Mystic river	Public.		60	915	....
Boston ave.	Broadway	Medford line	Public.		50	80	....
Boston ave.	Broadway	Highland road	Public.		65	287	....
Boston ave.	Highland road	Prichard ave.	Public.		50	509	....
Boston ave.	Prichard ave.	East to angle in street	Private.		50	....	146
Boston ave.	Angle in st. s'ly	Kidder ave.	Private.		40	....	376
Boston ave.	Kidder ave.	Morrison ave.	Public.		40	649	....
Boston	Washington st.	Prosp't Hill av.	Public.		45	640	....
Boston	Prosp't Hill av.	Walnut st.	Public.		40	1,242	....
Bow	Union sq.	Wesley sq.	Public.		60	658	....
Bow	Wesley sq.	Somerville ave.	Public.		50	570	....
Bowdoin	Washington st.	Lincoln park	Public.		40	341	....
Bowers ave.	Cottage ave.	Elm st.	Private.		24	....	288
Bow St. pl.	Bow st.	Northwesterly	Private.		40	....	300
Bradford ave.	School st.	Southeasterly	Private.		40	....	150
Bradley	Pearl st.	Walter st.	Public.		40	762	....
Braemore road	Broadway	Medford line	Private.		40	....	9
Brastow ave.	Lowell st.	Porter st.	Public.		40	686	....
Bristol road	Broadway	Medford line	Public.		40	146	....
Broadway	Charlest'n line	Cross st.	Public.		100	2,590	....
Broadway	Cross st.	Marshall st.	Pub.	100 to 200	200	2,060	....
Broadway	Marshall st.	Main st.	Public.		100	1,570	....
Broadway	Main st.	Top of hill	Public.	100 to 90	90	1,030	....
Broadway	Top of hill	Albion st.	Public.		90	2,540	....
Broadway	Albion st.	Willow ave.	Public.	90 to 70	70	1,030	....
Broadway	Willow ave.	Paulina st.	Public.		70	3,250	....
Broadway	Paulina st.	Arlington line	Public.	65-60-65	65	3,220	....
Broadway pl.	Broadway	Southwesterly	Private.		22	....	250
Bromfield road	Warner st.	Dearborn road	Public.		40	1,262	....
Brook	Glen st.	Cross st.	Public.		40	504	....
Browning road	Sycamore st.	Central st.	Public.		40	679	....
Buckingham	Beacon st.	Dimick st.	Public.		40	292	....
Buena Vista rd.	Holland st.	Southwesterly	Private.		35	....	276
Burnham	Broadway	Pow. House Bl.	Public.		40	543	....
Burnside ave.	Elm st.	Summer st.	Public.		40	720	....
Cady ave.	Simpson ave.	Northwesterly	Private.		40	....	203
Caldwell ave.	Washington st.	Southerly	Private.		20	....	210
Calvin	Beacon st.	Dimick st.	Public.		40	263	....
Calvin	Dimick st.	Washington st.	Public.		30	392	....
Cambria	Central st.	Benton road	Public.		40	488	....
Cameron ave.	Holland st.	Cambridge line	Public.		60	1,065	....
Campbell pk.	Meacham rd.	Kingston st.	Public.		40	399	....
Campbell Pk. pl.	Kingston st.	Arl'ton Br. R.R.	Private.		20	....	84
Carlton	Somerville ave.	Lake st.	Public.		40	300	....
Carter terrace	Summer st.	Southwesterly	Public.		40	171	....
Carter terrace	Accepted part	Southwesterly	Private.		18+	....	43
Carver	Porter st.	Northwesterly	Private.		40	....	156
Cedar ave.	Cedar st.	Linden ave.	Public.		22	293	....
Cedar ct.	Cedar st.	Southeasterly	Private.		15+	....	70+
Cedar St. pl.	Murdock st.	Southwesterly	Private.		20	....	378
Cedar St. pl.	Cedar n Elm st.	Southeasterly	Private.		12+	....	80+
Cedar	Elm st.	Broadway	Public.		40	4,137	....
Central road	Central st.	E'ly and N'ly	Public.		40	377	....
Central road	Central road	Sycamore st.	Public.	30 to 15	15	221	....
Central	Somerville ave.	Summer st.	Public.		33	1,043	....
Central	Summer st.	Medford st.	Public.		40	2,539	....
Central	Medford st.	Broadway	Public.		45	1,079	....
Centre	Albion st.	B. & L. R. R.	Private.		35	....	200
Chandler	Park ave.	Broadway	Public.		40	1,232	....
Chapel	College ave.	Chandler st.	Public.		40	273	....
Chapel ct.	Sycamore st.	Northwesterly	Private.		12	....	130
Charles	Washington st.	Southerly	Public.		30	166	....
Charlestown	Allen st.	Merriam st.	Private.		15	....	400
Charnwood rd.	Willow ave.	Hancock st.	Public.		40	589	....

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public		Length
			or Private	Width in Feet	
*Chelsea	Mystic ave.	Melrose st.	Private.	50	1,390
Cherry	Elm st.	Highland ave.	Public.	45	1,450
Cherry	Highland ave.	Northeasterly	Private.	45	110
Chester	Elm st.	Cambridge line	Public.	40	885
Chester ave.	Medford st.	Angle	Public.	about 22	220
Chester ave.	Angle	Cross st.	Public.	20	451
Chester pl.	Chester st.	Northwesterly	Private.	40	200
Chestnut	Poplar st.	Southeasterly	Public.	40	537
Chetwynd road	Curtis st.	West Adams st.	Private.	40	892
Church	Summer st.	Lake st.	Public.	40	964
City road	Broadway	Cedar st.	Private.	45	930
Claremon	Holland st.	Mead st.	Public.	40	560
Clarendon ave.	Broadway	Cambridge line	Public.	40	1,217
Clark	Newton st.	Lincoln pky.	Public.	35	552
Cleveland	Central st.	Harvard st.	Public.	40	459
Clifton	Appleton st.	Morrison ave.	Public.	40	200
Clifton	Morrison ave.	Arlngtn Br. RR	Private.	40	220
Clyde	Cedar st.	Murdock st.	Public.	30	664
College ave.	Davis sq.	Medford line	Public.	60	4,080
College Cir.	College av. around to	College av.	Private.	10 and 12	284
College Hill rd.	Conwell ave.	North st.	Public.	40	449
Columbia	Webster ave.	Cambridge line	Public.	40	816
Columbia ct.	Columbia st.	Webster ave.	Private.	9	150
Columbus ave.	Washington st.	Walnut st.	Public.	40	1,425
Concord ave.	Prospect st.	Wyatt st.	Public.	40	1,483
Concord ave.	Wyatt st.	Beacon st.	Public.	30	472
Congress pl.	Somerville ave.	Linwood st.	Public.	50	202
Conlon ct.	Columbia st.	Easterly	Private.	20	200
Connecticut av.	Mystic ave.	Penn. ave.	Public.	40	487
Conwell ave.	Curtis st.	North st.	Public.	40	1,346
Conwell	Highland ave.	Southwesterly	Public.	35	363
Cooney	Beacon st.	Line st.	Public.	30	245
Corinthian road	Broadway	Cady ave.	Private.	40	560
Cottage ave.	Russell st.	Chester st.	Public.	40	550
Cottage circle	Cottage ave.	Southwesterly	Private.	25	87
Cottage pl.	Washington st.	Northwesterly	Private.	about 11	150
Craigie	Somerville ave.	Summer st.	Public.	50	1,280
Craigie ter.	16 Craigie st.	Westerly	Private.	25	126
Crescent	Boston line	Hadley st.	Public.	30 and 22	387
Crescent	Hadley st.	Pearl st.	Public.	30	174
Crocker	Highland ave.	Crown st.	Public.	40	528
Cross	Medford st.	Broadway	Public.	45	2,680
Cross st. (East)	Broadway	Mystic ave.	Public.	40	1,100
Cross St. pl.	Cross st.	Northwesterly	Private.	24	150
Crown	Porter st.	Lowell st.	Private.	30	700
*Cummings	Fellsway	M'ddlesex ave.	Private.	40	625
Curtis ave.	Curtis st.	Hillsdale road	Public.	40	654
Curtis	Broadway	Medford line	Public.	40	2,357
Cutler	Hinckley st.	Northwesterly	Private.	20	170
Cutter ave.	Summer st.	Highland ave.	Public.	40	480
Cutter pk.	Cutter ave.	Northwesterly	Private.	12	83
Cutter	Broadway	Webster st.	Public.	40	730
Cypress	Central st.	Beech st.	Public.	40	262
Dana	Pearl st.	Bonair st.	Public.	40	696
Dane	Somerville ave.	Washington st.	Public.	40	1,341
Dane ave.	Dane st.	Leland st.	Public.	30	569
Dante terrace	Craigie st.	Westerly	Private.	25	125
Dartmouth	Medford st.	Broadway	Public.	40	1,465
Day	Elm st.	Cambridge line	Public.	40	908
Dearborn road	Boston ave.	College ave.	Public.	50	469
Delaware	Pearl st.	Aldrich st.	Public.	40	451
Dell	Glen st.	Tufts st.	Public.	40	466
Derby	Temple st.	Wheatland st.	Public.	40	1,031
Dexter	Broadway	Medford line	Private.	50	25
Dickinson	Springfield st.	Beacon st.	Public.	40	770
Dickson	Broadway	Fairmount ave.	Public.	40	271
Dimick	Concord ave.	Calvin st.	Public.	40	957
Dix pl.	Linwood st.	Southwesterly	Private.	10	100
Douglas ave.	Edgar ave.	Southeasterly	Private.	30	162
Dover	Elm st.	Cambridge line	Public.	40	975

\*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width in Feet	Length	
			or Private.		Public	Private
Dow	Powder House Bd.	Ware st.	Private.	40	....	257
Downer pl.	Downer st.	B. & L. R. R.	Private.	20	....	125
Downer	Nashua st.	Southeasterly	Private.	20	....	120
Dresden circle	Cutter ave.	Westerly	Private.	30	....	133
Durant	Washington st.	Southerly	Private.	20	....	200
Durham	Beacon st.	Hanson st.	Public.	40	423	....
Dynamo	Willow ave.	Whipple st.	Private.	30	....	255
Earle	South st.	Northerly	Private.	30	....	322
Earle	End of above	Fitchburg R. R.	Private.	15	....	115
East Albion	Mt. Vernon ave.	E. of Moreland st.	Private.	25	....	188
East Albion	E. of Moreland st.	Medford line	Private.	40	....	490
Eastman road	Highland ave.	Southwesterly	Public.	40	296	....
Edgar ave.	Main st.	Meacham st.	Private.	50	....	800
*Edgeworth	Mystic ave.	Melrose st.	Private.	50	....	1,380
Edmands	Broadway	near Bonair st.	Public.	40	376	....
Edmonton ave.	Cross st.	Fellsway east	Private.	40	....	630
Electric ave.	Mason st.	Curtis st.	Public.	40	1,374	....
Eliot	Vine st.	Park st.	Public.	40	291	....
Ellington road	Highland ave.	Northeasterly	Private.	35	....	120
Ellington road	West st.	Northwesterly	Private.	30	....	405
Ellsworth	Cross st.	Rush st.	Public.	40	230	....
Elm ct.	Villa ave.	Northwesterly	Private.	18	....	70
Elm pl.	Harvard st.	Westerly	Private.	30	....	190
Elm road	Elm st.	Northeasterly	Private.	25	....	183
Elm	Somerville ave.	Cherry st.	Public.	63	1,672	....
Elm	Cherry st.	White st.	Public.	63 to 60	330	....
Elm	White st.	Banks st.	Public.	60	660	....
Elm	Banks st.	Beech st.	Public.	60 to 77.5	290	....
Elm	Beech st.	Tenney st.	Public.	77.5 to 60	570	....
Elm	Tenney st.	Davis sq.	Public.	60	1,429	....
Elmwood	Holland st.	Cambridge line	Public.	40	1,057	....
Elmwood ter.	Elmwood st.	Easterly	Private.	20	....	190
Elston	Elm st.	Summer st.	Public.	40	396	....
Emerson	Everett st.	Newton st.	Private.	30	....	170
Endicott ave.	Broadway	Woodstock st. (Ext'n)	Private.	40	....	800
Essex	Medford st.	Richdale ave.	Public.	40	232	....
Eustis	Beacon st.	Cambridge line	Public.	30	146	....
Everett ave.	Cross st.	Dana st.	Public.	40	845	....
Everett	Webster ave.	Newton st.	Private.	30	....	350
Evergreen ave.	Marshall st.	Sycamore st.	Public.	40	1,320	....
Evergreen sq.	Porter st.	Southeasterly	Private.	22	....	179
Exchange pl.	Washington st.	Southerly	Private.	4.5	....	70
*Fairfax	North st.	Powder House Blvd.	Private.	40	....	915
Fairlee	Cherry st.	Northwesterly	Public.	30	144	....
Fairmount ave.	Curtis st.	Northwesterly	Public.	40	679	....
Fairview ter.	Sycamore st.	Southwesterly	Private.	15	....	173
Farragut ave.	Broadway	Woodstock st. (Ext'n)	Public.	40	905	....
††Fellsway	Mystic ave.	Mystic river	Public.	70 to 130	2,500	....
††Fellsway east (Winthrop ave.)	Broadway	Mystic ave.	Public.	50	1,222	....
††Fellsway West (Chauncey ave.)	Broadway	Mystic ave.	Public.	50	1,324	....
Fennell	Hinckley st.	Northwesterly	Private.	20	....	175
Fenwick	Broadway	Jaques st.	Public.	40	601	....
Fisk ave.	Lowell st.	Hinckley st.	Public.	20	434	....
Fitchburg ct.	Fitchburg st.	Southeasterly	Private.	10	....	225
Fitchburg	Linwood st.	B. & L. R. R.	Private.	40	....	400
Flint ave.	Flint st.	Northerly	Public.	40	202	....
Flint	Franklin st.	Aldrich st.	Public.	40	1,790	....
Florence	Washington st.	Perkins st.	Public.	40	1,304	....
Florence ter.	Jaques st.	Southwesterly	Private.	20	....	90
Forest	Beacon st.	Cambridge line	Public.	40	117	....
Forster	Sycamore st.	Central st.	Private.	30	....	430

\*Proposed.

††Metropolitan Park Commission Boulevard.



Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public or Private	Width in Feet		Length Public Private	
				Public	Private	Public	Private
Foskett	Willow ave.	Liberty ave.	Public.	40		668	....
Fountain ave.	Cross st.	Glen st.	Public.	30		578	....
Francesca ave.	College ave.	Liberty ave.	Public.	40		762	....
Francis	Porter st.	Conwell st.	Public.	30		180	....
Franklin ave.	Washington st.	Franklin st.	Public.	20		575	....
Franklin pl.	Franklin st.	Southeasterly	Private.	15		....	100
Franklin	Broadway	Washington st.	Public.	40+		2,316	....
Fremont ave.	Bowdoin st.	Lincoln pk.	Public.	30		232	....
Fremont	Main st.	Nr E. Albion st	Public.	40		1,112	....
Fremont	Nr E. Albion st	Mystic ave.	Private.	40		....	335
Garden ct.	Somerville ave.	Fitchburg R. R.	Private.	25		....	370
Garfield ave.	Broadway	Blakeley ave.	Public.	40		447	....
Garfield ave.	Blakeley ave.	Middlesex ave.	Private.	40		....	983
Garrison ave.	Broadway	Land of City of Camb.	Public.	40		460	....
Garrison ave.	Land City of Camb.	Woodstock st. (Ext'n)	Private.	40		....	390
George	Broadway	Lincoln ave.	Public.	30		275	....
Gibbens	Central st.	Benton rd, w'ly	Public.	40		665	....
Giles pk.	Walnut st.	Northwesterly	Public.	32.71		167	....
Gill's ct.	Franklin st.	Westerly	Private.	10		....	100
Gilman	Cross st.	Walnut st.	Public.	40		1,430	....
Gilman ter.	Pearl st.	Northeasterly	Public.	40		360	....
Gilson ter.	Linden ave.	Northwesterly	Private.	20		....	124
Glen	Broadway	Tufts st.	Public.	40		2,373	....
Glendale ave.	Cameron ave.	Yorktown st.	Public.	40		410	....
Glenwood road	Vernon st.	Broadway	Public.	40		1,524	....
Glover circle	Meacham road	Southeasterly	Private.	20		....	110
Gordon	North st.	Pow. House Bd	Private.	40		....	1,245
Gorham	Holland st.	Howard st.	Public.	40		763	....
Gould ave	Porter st.	Southeasterly	Private.	16		....	156
Gove ct.	Cedar st.	Southeasterly	Private.	18		....	144
Grand View av	Walnut st.	Vinal ave.	Public.	40		542	....
Granite	Somerville ave.	Osgood st.	Public.	40		411	....
Grant	Broadway	Mystic ave.	Public.	40		1,405	....
Greene	Summer st.	Laurel st.	Public.	40		555	....
Greenville	Medford st.	Munroe st.	Public.	40		660	....
Greenville ter.	Greenville st.	Northerly	Private.	20		....	250
Greenwood ter.	Beacon st.	Northeasterly	Private.	25		....	165
Gritter way	College ave.	Bromfield rd.	Private.	4		....	160
Grove	Elm st.	Morrison ave.	Public.	40		996	....
Hadley ct.	Franklin st.	Westerly	Private.	16		....	74
Hall ave.	College ave.	Liberty ave.	Public.	40		926	....
Hall	Cedar st.	Cherry st.	Public.	30		456	....
Hamlet	Highland ave.	Boston st.	Public.	30		616	....
Hamilton road	Russell road	North st.	Public.	40		560	....
Hammond	Dickinson st.	Concord ave.	Public.	40		267	....
Hancock	Elm st.	Highland ave.	Public.	40		1,349	....
Hancock	Highland ave.	Lexington ave.	Public.	50		376	....
Hanson ave.	Hanson st.	Easterly	Private.	30		....	252
Hanson	Washington st.	Skehan st.	Public.	30		469	....
Hanson	Skehan st.	Vine st.	Public.	35		347	....
Hardan road	Pow. House Bd	Ware st.	Private.	20 and 40		....	283
Harding	No. of Ward st.	Cambridge line	Public.	30		465	....
Harold	Dimick st.	Marion st.	Public.	40		316	....
Harold	Gordon st.	Medford line	Private.	40		....	48
Harrison	Ivaloo st.	Kent st.	Public.	40		644	....
Harrison	Elmwood st.	Southeasterly	Public.	40		....	210
Harvard pl.	Harvard st.	Westerly	Private.	35		....	200
Harvard	Summer st.	Beech st.	Public.	40		717	....
Hathorn	Broadway	Arlington st.	Public.	40		339	....
Hawkins	Somerville ave.	Washington st.	Public.	40		330	....
Hawthorne	Willow ave.	Cutter ave.	Public.	30		807	....
Hayden ter.	Linden ave.	Easterly	Private.	20		....	120
Heath	Temple st.	Bond st.	Public.	45		1,043	....
Heath	Bond st.	Moreland st.	Public.	40		754	....
Henderson	Richardson st.	B. & L. R. R.	Public.	20		569	....
Hennessy ct.	Medford st.	Fisk ave.	Private.	20		....	250
Henrietta ct.	Somerville ave.	Northerly	Private.	8 and 20		....	161
Henry ave.	Highland ave.	Lexington ave.	Public.	40		290	....

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width	Length	
			or Private	in Feet	Public	Private
Herbert	Chester st.	Day st.	Public.	40	337	....
Hersey	Berkeley st.	Oxford st.	Private.	40	....	230
Higgins ct.	Mt. Vernon st.	Westerly	Private.	16	....	149
High	North st.	Pow. House Bd	Private.	40	....	678
Highland ave.	Medford st.	Davis sq.	Public.	60	9,135	....
Highland path, east	Morrison ave.	Arlington Br. R. R.	Private.	10	....	107
Highland path, west	Morrison ave.	Arlington Br. R. R.	Private.	10	....	108
†Highland rd.	Morrison ave.	Boston ave.	Pub. 30(70wide)	1,499	....	....
Hill	Broadway	Fairmount ave.	Public.	40	284	....
Hillsdale rd.	Conwell ave.	Sunset rd.	Public.	40	632	....
Hillside ave.	Pearl st.	Southwesterly	Private.	30	....	150
Hillside cir.	Craigie st.	Westerly	Private.	16	....	151
Hillside pk.	Walnut st.	Northwesterly	Public.	40	196	....
Hinckley	Broadway	B. & L. R. R.	Public. 30 and 35	1,081	....	....
Hodgdon pl.	Dane ave.	Northeasterly	Private. about 20	....	150	....
Holland	Davis sq.	Broadway	Public.	60	2,696	....
Holt's ave.	Oak st.	Southeasterly	Private.	10	....	100
Holyoke road	Elm st. around	to Elm st.	Public.	40	637	....
Homer sq.	Bonner ave.	Northwesterly	Public.	30+	200	....
Horace	South st.	Fitchburg R. R.	Public.	30	517	....
Houghton	Springfield st.	Cambridge line	Public.	40	653	....
Howard	Thorndike st.	Gorham street	Public.	40	431	....
Howe	Marshall st.	School st.	Public.	40	445	....
Hudson	Central st.	Cedar st.	Public.	40	2,760	....
Hunting	South st.	Cambridge line	Public.	30	117	....
Ibbetson	Somerville ave.	Lowell st.	Public.	40	802	....
Illinois ave.	Broadway	Penn. ave.	Public.	40	427	....
Indiana ave.	Broadway	Penn. ave.	Public.	40	384	....
Irving	Holland st.	Broadway	Public.	40	1,180	....
Ivaloo	Beacon st.	Park st.	Public.	40	685	....
James	Pearl st.	Radcliffe road	Public.	40	320	....
Jaques	Fellsway west	Temple st.	Public.	40	1,182	....
Jaques	Temple st.	Bond st.	Public.	45	1,005	....
Jaques	Bond st.	Edgar ave.	Public.	40	395	....
Jasper pl.	Walnut st.	Easterly	Private.	20	....	80
Jasper	Pearl st.	Gilman st.	Public.	40	283	....
Jay	Holland st.	Howard st.	Public.	40	534	....
Jerome ct.	Sycamore st.	Jerome st.	Private.	10	....	150
Jerome	Montrose st.	Jerome ct.	Private.	20	....	125
Jerome	Lawrence rd.	Mystic Val. py	Private.	40	....	495
Joseph	Newton st.	Lincoln pky	Public.	40	458	....
Josephine ave.	Morrison ave.	Broadway	Public.	45	1,718	....
Joy	Washington st.	Poplar st.	Public.	30	1,121	....
Joy St. pl.	Joy st.	Southwesterly	Private.	16	....	168
Kenneson road	Broadway	Walnut road	Private.	30	....	338
Kensington av.	Broadway	Blakeley ave.	Public.	40	455	....
*Kensington av	Blakeley ave.	Middlesex ave.	Private.	40	....	1,150
Kent ct.	Kent st.	Northerly	Private. about 25	....	420	....
Kent	Somerville ave.	Fitchburg R. R.	Public.	40	292	....
Kent	Fitchburg R. R.	Beacon st.	Public.	25	386	....
Kenwood	College ave.	Billingham st.	Public.	40	322	....
Kidder ave.	College ave.	Boston ave.	Public.	40	2,554	....
Kilby	Somerville ave.	Southwesterly	Private.	20	....	180
Kilsyth road	Broadway	Medford line	Private.	40	....	5
Kimball	Lowell st.	Craigie st.	Private.	40	....	303
Kingman road	Washington st.	Fitchburg R. R.	Private.	25	....	400
Kingston	Meacham road	Cambridge line	Public.	40	647	....
Knapp	School st.	Granite st.	Public.	40	379	....
Knowlton	Tufts st.	N'E' line Est. 37	Public.	40	461	....
Knowlton	End of above	Oliver st.	Private.	40	....	464
Lake	Hawkins st.	Church st.	Public.	40	840	....
Lamson ct.	Linwood st.	Poplar st.	Private.	20	....	370
Landers	School st.	Westerly	Public.	40	228	....
Langmaid ave.	Broadway	Heath st.	Public.	30	353	....
Latin way	Professors row	Talbot ave.	Private.	60	....	250

\*Proposed.

†Roadway (only) accepted 30 feet wide, full width of street 70 feet.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public or Private	Width in Feet		Length	
				Public	Private	Public	Private
Laurel ave.	Laurel st.	Northwesterly	Private.	18	....	125	....
Laurel	Somerville ave.	Summer st.	Public.	40	983	....	....
Lawrence road	Medford line	Mystic Val. py	Private.	40	....	585	....
Lawson ter.	Putnam st.	Easterly	Private.	5	....	200	....
Lee	Medford st.	Richdale ave.	Public.	40	385	....	....
Leland	Washington st.	Dane ave.	Public.	40	359	....	....
Leon	Concord ave.	Dickinson st.	Public.	40	155	....	....
Leonard pl.	Joy st.	Northeasterly	Private.	13+	....	98	....
Leonard	Broadway	Pow. House Bd.	Public.	40	450	....	....
Lesley ave.	Highland ave.	Lexington ave.	Public.	40	333	....	....
Leslie pl.	Highland ave.	Northerly	Private.	12	....	75	....
Lester ter.	Meacham road	Northwesterly	Private.	20	....	190	....
Lewis	Magnus ave.	Easterly	Private.	40	....	416	....
Lexington ave.	Willow ave.	Hancock st.	Public.	50	624	....	....
Lexington ave.	Hancock st.	Angle	Public.	45 to 40	147	....	....
Lexington ave.	Angle	Cedar st.	Public.	40	578	....	....
Liberty ave.	Broadway	Appleton st.	Public.	40	1,493	....	....
Liberty rd.	Morrison ave.	Liberty ave.	Private.	16	....	200	....
Lincoln ave.	Lincoln st.	Mt. Vernon st.	Public.	30	478	....	....
Lincoln pky	Washington st.	Perry st.	Public.	40	1,520	....	....
Lincoln pl.	Lincoln ave.	Northerly	Private.	9	....	120	....
Lincoln	Broadway	Perkins st.	Public.	40	550	....	....
Linden ave.	Elm st.	Cedar ave.	Public.	45	1,413	....	....
Linden circle	Linden ave.	Southeasterly	Private.	24	....	120	....
Linden pl.	Linden ave.	Northwesterly	Private.	20	....	160	....
Linden	Somerville ave.	Charlestown st.	Public.	33	587	....	....
Line	Washington st.	Cambridge line	Public.	33	1,727	....	....
Linehan ct.	Linwood st.	Chestnut st.	Private.	about 15	....	200	....
Linwood pl.	Linwood st.	Southwesterly	Private.	about 12	....	150	....
Linwood	Washington st	Fitchburg st.	Public.	50	2,114	....	....
London	Linwood st.	B. & L. R. R.	Private.	40	....	340	....
Loring	Somerville ave.	Osgood st.	Public.	40	413	....	....
Louisburg pl.	Autumn st.	Easterly	Private.	13	....	90	....
Lovell	Broadway	Electric ave.	Public.	40	385	....	....
Lowden ave.	Broadway	Foskett st.	Public.	40	1,247	....	....
Lowell	Somerville ave.	Summer st.	Public.	36	1,259	....	....
Lowell	Summer st.	Medford st.	Public.	40	3,472	....	....
Lowell circle	Lowell st.	Westerly	Priv.	11 and 27.5	....	143	....
Lowell ter.	Lowell st.	Northwesterly	Private.	20	....	150	....
Madison	School st.	Sycamore st.	Public.	40	891	....	....
Magnus ave.	Washington st.	Lewis st.	Public.	40	429	....	....
Magnus ave.	Lewis st.	Southerly	Private.	40	....	80	....
Main	Broadway	Medford line	Public.	50	966	....	....
Maine ave.	Mystic ave.	Penn. ave.	Public.	40	379	....	....
Maine ter.	Maine ave.	Southeasterly	Public.	32	205	....	....
*Malden	Mystic ave.	Melrose st.	Private.	50	....	1,360	....
Mallet	W.illow ave.	Liberty ave.	Public.	40	657	....	....
Malloy ct.	Somerville ave.	Merriam ave.	Private.	30	....	255	....
Malvern ave.	Cameron ave.	Yorktown st.	Public.	40	410	....	....
Mansfield	Somerville ave.	Washington st.	Public.	40	735	....	....
Maple ave.	School st.	Southeasterly	Public.	40	319	....	....
Maple pl.	Marshall st.	Maple ave.	Private.	5	....	125	....
Maple	Poplar st.	Medford st.	Public.	30	699	....	....
Mardel circle	Spring st.	Northwesterly	Private.	8	....	140	....
Marion	Concord ave.	Dimick st.	Public.	40	1,141	....	....
Marshall	Broadway	Pearl st.	Public.	40	1,650	....	....
Mason	Broadway	Pow. House Bd.	Public.	40	681	....	....
May pl.	Hawkins st.	Easterly	Private.	12	....	100	....
McCarroll ct.	Clyde st.	Southwesterly	Private.	25	....	75	....
McCulphre pl.	Medford st.	Easterly	Private.	10	....	110	....
McGregor ave.	Wigglesworth st.	Walnut st.	Private.	13	....	302	....
Meacham road	Dover st.	Cambridge line	Public.	40	1,060	....	....
Meacham	Mt. Vernon ave.	Medford line	Public.	40	777	....	....
Mead st.	Moore st.	N'r Cameron av	Public.	40	345	....	....
Mead st.	End of above	Cameron ave	Private	40	....	95	....
Medford	Cambridge line	Central st.	Public.	50	8,047	....	....
Medford	Central st.	Broadway	Public.	55	1,985	....	....
Melrose	Mystic ave.	Fellsway	Private.	50	....	2,310	....
Melvin	Broadway	Bonair st.	Public.	40	487	....	....

\*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width	Length	
			or Private	in Feet	Public	
Merriam ave.	Merriam st.	Malloy ct.	Private.	15	....	255
Merriam	Washington st.	Somerville ave.	Public.	40	360	....
Merriam	Somerville ave.	Charlestown st.	Public.	30	510	....
Michigan ave.	Broadway	Penn. ave.	Public.	40	470	....
†Middlesex ave.	Mystic ave.	Fellsway	Public.	60	2,304	....
Milk pl.	Somerville ave.	Southwesterly	Private.	about 30	....	100
Miller	Sacramento st.	Beacon st.	Private.	33	....	465
Milton	Orchard st.	Cambridge line	Public.	40	223	....
Miner	Vernon st.	Ames st.	Public.	40	244	....
Minnesota ave.	Broadway	Penn. ave.	Public.	40	525	....
Mondamin ct.	Ivaloo st.	Harrison st.	Private.	25	....	250
Monmouth	Central st.	Westerly	Public.	40	267	....
Monmouth	End of above	Harvard st.	Private.	35	....	200
Montgomery av.	Broadway	Wellington ave.	Public.	40	265	....
Montrose ct.	Montrose st.	B. & L. R. R.	Private.	12	....	110
Montrose	School st.	Sycamore st.	Public.	40	886	....
Moore	Holland st.	Mead st.	Public.	40	695	....
Moreland	Main st.	Mystic ave.	Public.	40	1,471	....
Morgan	Beacon st.	Park st.	Public.	40	377	....
Morrison ave.	Cedar st.	Willow ave.	Public.	50	1,366	....
Morrison ave.	Willow ave.	College ave.	Public.	40	1,690	....
Morrison pl.	Morrison ave.	Northerly	Private.	20	....	190
Morrison pl.	Morrison pl.	Easterly	Private.	15	....	175
Mortimer pl.	Marshall st.	Walter st.	Private.	20	....	280
Morton	Glen st.	Knowlton st.	Public.	40	287	....
Mossland	Somerville ave.	Elm st.	Public.	40	377	....
Mountain ave.	Porter st.	nr Linden ave.	Public.	22	280	....
Mountain ave.	End acptd part	Linden ave.	Private.	22	....	30
Mousal pl.	No. Union st.	B. & M. R. R.	Private.	20	....	200
Mt. Pleasant ct.	Perkins st.	Southwesterly	Private.	40	....	260
Mt. Pleasant	Broadway	Perkins st.	Public.	33	534	....
*Mt. Vernon av.	Meacham st.	Mystic ave.	Private.	50	....	764
Mt. Vernon	Washington st.	Pearl st.	Public.	40	600	....
Mt. Vernon	Pearl st.	Perkins st.	Public.	50	473	....
Mt. Vernon	Perkins st.	Broadway	Public.	40	590	....
Munroe	Walnut st.	Easterly	Public.	40	375	....
Munroe	End of above	Boston st.	Public.	50	1,214	....
Murdock	Cedar st.	Clyde st.	Private.	30	....	900
Murray	Washington st.	Southerly	Private.	30	....	250
Museum	Beacon st.	Cambridge line	Public.	40	164	....
Myrtle ct.	Myrtle st.	Easterly	Private.	10	....	100
Myrtle pl.	Myrtle st.	Westerly	Private.	20+	....	120
Myrtle	Washington st.	Perkins st.	Public.	40	1,423	....
Mystic ave.	Charlest'n line	Union st.	Public.	60	378	....
††Mystic ave.	Union st.	Medford line	Public.	66	6,938	....
Mystic	Benedict st.	Mystic ave.	Public.	40	336	....
†Mystic Valley Parkway	Medford line	Arlington line	Public.	60	2,530	....
Nashua	Richardson st.	B. & L. R. R.	Public.	35	637	....
Nevada ave.	Village st.	Hanson st.	Private.	20	....	200
Newberne	Appleton st.	Morrison ave.	Public.	40	200	....
Newberne	Morrison ave.	Arlington Br. R. R.	Private.	40	....	173
Newbury park	Newbury st.	Southeasterly	Private.	55	....	68
Newbury	Holland st.	Cambridge line	Public.	40	1,260	....
N. Hampshire ave.	Mystic ave.	Penn. ave.	Public.	40	406	....
Newman pl.	Cedar st.	Southeasterly	Private.	15	....	100
Newton pl.	Newton st.	Easterly	Private.	about 10	....	100
Newton	Prospect st.	Webster ave.	Public.	25	470	....
Newton	Webster ave.	Concord sq.	Public.	40+	637	....
Norfolk	Webster ave.	Cambridge line	Public.	40	283	....
North	Broadway	Medford line b. 17	Public.	40	1,961	....
North	Medford line b. 17	Medford line b. 18	Public.	37 to 42	649	....
North Union	Mystic ave.	Northeasterly	Private.	30	....	600
Norton	Nashua st.	Southeasterly	Private.	20	....	200
Norwood ave.	Broadway	Medford st.	Public.	40	350	....

\*Proposed.

††State Highway Austin St. to Medford line.

†State Highway.

‡Metropolitan Park Commission Boulevard.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width in Feet	Length	
			or Private		Public	Private
Oak Circle	Cambridge line	Northerly	Private.	30	....	35
Oak	Prospect st.	Angle	Public.	40	665	....
Oak	Angle	Cambridge line	Public.	30	563	....
Oak St. pl.	Oak st.	Northerly	Private.	4	....	85
Oak ter.	Elm st.	Northeasterly	Private.	10+	....	90
Oakland ave.	Marshall st.	School st.	Public.	40	440	....
Olive ave.	Linden ave.	Peterson ter.	Private.	25	....	155
Olive sq.	Lake st.	Southerly	Private.	about 15	....	100
Oliver	Franklin st.	Cross st.	Public.	40	1,085	....
Orchard	Cambridge line	Meacham road	Public.	40	1,567	....
Osgood	Granite st.	E'ly & w'ly	Private.	40	....	450
Ossipee road	Mason st.	Curtis st.	Public.	40	1,375	....
Otis	Cross st.	W. gglesworth st	Public.	40	1,200	....
Oxford	School st.	Central st.	Public.	35	1,361	....
Oxford	Beacon st.	Cambridge line	Public.	50	100	....
Packard ave.	Broadway	Professors row	Public.	60	1,758	....
Packard ave.	Professors row	Medford line	Private.	60	....	240
Palmer ave.	Franklin st.	Northwesterly	Private.	20	....	200
Park ave.	College ave.	Wallace st.	Public.	40	467	....
Park pl.	Laurel st.	Easterly	Private.	30	....	522
Park pl.	Park pl.	Northeasterly	Private.	20	....	120
Park	Somerville ave.	Beacon st.	Public.	50	1,238	....
Parkdale	Washington st.	Montvale st.	Private.	40	....	500
Parker pl.	Porter st.	Northwesterly	Private.	20	....	150
Parker	Washington st.	Fremont ave.	Public.	35	203	....
Partridge ave.	Vernon st.	Broadway	Public.	40	1,467	....
Patten ct.	Cutter st.	Southeasterly	Private.	8	....	100
Paulina	Broadway	Holland st.	Public.	40	769	....
Pearl	Crescent st.	Mt. Vernon st.	Public.	37	341	....
Pearl	Mt. Vernon st.	Franklin st.	Public.	50	957	....
Pearl	Franklin st.	Cross st.	Public.	40	1,060	....
Pearl	Cross st.	Medford st.	Public.	50	2,147	....
Pearl St. pl.	Pearl st.	Northeasterly	Public.	20	166	....
Pearl ter.	Pearl st.	Northerly	Private.	23	....	161
Pearson ave.	Morrison ave.	Boston ave.	Public.	45	1,320	....
Pearson road	Broadway	Dearborn road	Public.	40	1,713	....
Pembroke ct.	Pembroke st.	Southwesterly	Private.	25	....	130
Pembroke	Central st.	Sycamore st.	Public.	40	430	....
Penn. ave.	Broadway	Wisconsin ave.	Public.	50	1,112	....
Penn. ave.	Wisconsin ave.	Cross st.	Public.	40	350	....
Perkins pl.	Perkins st.	Northeasterly	Private.	20	....	200
Perkins	Franklin st.	Charlest'n line	Public.	40	1,336	....
Perry	Washington st.	Lincoln pkway	Public.	40	606	....
Peterson ter.	Porter st.	Olive ave.	Private.	7.5	....	155
Philips pl.	Spring st.	Westerly	Private.	15+	....	100
Pinckney pl.	Pinckney st.	Southeasterly	Private.	24	....	125
Pinckney	Washington st.	Perkins st.	Public.	40	1,186	....
Piper ave.	Cedar st.	Westerly	Private.	20	....	91
Pitman	Beech st.	Spring st.	Public.	30	377	....
Pitman	Spring st.	Belmont st.	Private.	26	....	390
Pleasant ave.	Walnut st.	Vinal ave.	Public.	40	543	....
Poplar ct.	Poplar st.	Southeasterly	Private.	10	....	80
Poplar	Somerville ave.	Linwood st.	Public.	30	351	....
Poplar	Linwood st.	Joy st.	Public.	35	315	....
Poplar	Joy st.	B. & L. R. R.	Private.	35	....	65
Porter ave.	Porter st.	Northwesterly	Private.	20	....	220
Porter	Elm st.	Mountain ave.	Public.	45	1,622	....
Porter	Mountain ave.	Highland ave.	Public.	40	415	....
Powder house boulevard	Powder house square	Alewife Brook Parkway	Public.	80	4,560	....
Pow. house ter.	Kidder ave.	Liberty ave.	Public.	40	585	....
Prentiss	Beacon st.	Cambridge line	Private.	35	....	150
Prescott	Summer st.	Highland ave.	Public.	50	1,110	....
Preston road	School st.	Summer st.	Public.	40	839	....
Prichard ave.	Morrison ave.	Boston ave.	Public.	40	1,191	....
Princeton	Alpine st.	Lowell st.	Public.	40	648	....
Princeton	Lowell st.	Centre st.	Private.	40	....	540
Professors row	College ave.	Curtis st.	Public.	40	2,000	....
Proposed	Fellsway	Middlesex ave.	Private.	40	....	195
Proposed	Fellsway	Middlesex ave.	Private.	40	....	315
Proposed	Fellsway	Middlesex ave.	Private.	40	....	340
Prospect	Washington st.	Cambridge line	Public.	50	2,071	....

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width in Feet	Length	
			or Private		Public	Private
Prosp't Hill av.	Medford st.	Munroe st.	Public.	40	597	....
Prosp't Hill pky	Munroe st.	Stone ave.	Public.	40	400	....
Prospect pl.	Prospect st.	Newton st.	Private.	20	....	130
Putnam	Summer st.	Highland ave.	Public.	50	1,262	....
Quincy	Somerville ave.	Summer st.	Public.	40	781	....
Radcliffe road	Walnut st.	Bradley st.	Public.	35	392	....
Radcliffe road	Bradley st.	Marshall st.	Public.	40	261	....
Richardson pl.	Cross st.	Westerly	Private.	15	....	244
Raymond ave.	Curtis st.	North st.	Public.	40	1,345	....
Record ct.	Broadway	Southwesterly	Private.	10	....	110
Reed's ct.	Oliver st.	Southwesterly	Private.	20	....	71
Remick ct.	Cutter st.	Southeasterly	Private.	10	....	100
Rhode Is. ave.	Mystic ave.	Penn. ave.	Public.	40	460	....
Richardson	Lowell st.	Hinckley st.	Public.	35	467	....
Richardson ter.	Richardson st.	Northeasterly	Private.	20	....	135
Richdale ave.	School st.	Sycamore st.	Public.	40	875	....
Roberts	Hinckley st.	Northwesterly	Private.	20	....	170
Robinson	Central st.	Bartlett st.	Public.	40	582	....
Rogers ave.	Morrison ave.	Boston ave.	Public.	45	1,682	....
Roland	Waverly st.	Boston line	Private.	40	....	100
Rose	Washington st.	Lewis st.	Public.	40	450	....
Roseland	Beacon st.	Cambridge line	Public.	40	121	....
Rossmore	Somerville ave.	Washington st.	Public.	40	534	....
Royce pl.	Bonair st.	Northeasterly	Private.	15+	....	175
Rush	Broadway	Flint st.	Public.	40	1,400	....
Russell rd.	Broadway	N. line Hamil- ton rd.	Public.	40	559	...
Russell rd.	N. Line Ham- ilton rd.	Northerly	Private.	40	....	75
Russell	Elm st.	Cambridge line	Public.	40	700	....
Sacramento	Somerville ave.	Fitchburg R. R.	Public.	40	80	....
Sacramento	Fitchburg R. R.	Beacon st.	Public.	40	290	....
Sacramento	Beacon st.	Cambridge line	Public.	40	154	....
Sanborn ave.	Warren ave.	Walnut st.	Public.	40	280	....
Sanborn ct.	Washington st.	Northwesterly	Private.	30	....	176
Sargent ave.	Broadway	Walnut st.	Public.	40	1,075	....
Sartwell ave.	Cedar st.	Cherry st.	Public.	35	427	....
Sawyer ave.	Packard ave.	Curtis st.	Private.	40	....	690
School	Somerville ave.	Highland ave.	Public.	40	1,901	....
School	Highland ave.	Broadway	Public.	50	2,500	....
Sellon pl.	Marshall st.	Northwesterly	Private.	12	....	120
Seven Pines av.	Cameron ave.	Cambridge line	Public.	40	92	....
Sewall ct.	Sewall st.	Southwesterly	Private.	25	....	190
Sewall	Grant st.	Temple st.	Public.	40	615	....
Shawmut	Washington st.	Cross st.	Public.	40	575	....
Shedd	Somerville ave.	Merriam ave.	Private.	40	....	310
Sherman ct.	Sargent ave.	Marshall st.	Private.	10	....	250
Sibley ct.	Cutter st.	Northwesterly	Private.	10	....	100
Sibley pl.	Cutter st.	Northwesterly	Private.	10	....	100
Simpson ave.	Broadway	Holland st.	Public.	40	1,018	....
Skehan	Dane st.	Hanson st.	Public.	30	306	....
Skehan	Hanson	Durham	Private.	30	....	414
Skilton ave.	Pearl st. around	to Pearl st.	Private.	40	....	540
Smith ave.	Beacon st.	Line st.	Private.	25+	....	200
Snow ter.	Jaques st.	Southwesterly	Private.	16	....	120
Somerville ave.	E. Camb. line.	Union sq.	Public.	75	4,325	....
Somerville ave.	Union sq.	N. Camb. line	Public.	70	6,793	....
South	Medford st.	Water st.	Public.	30	989	....
Spencer ave.	Cedar st.	Hancock st.	Public.	40	727	....
Spring ct.	Somerville ave.	Westerly	Private.	20	....	200
Spring	Somerville ave.	Summer st.	Public.	40	1,220	....
Springfield	Concord ave.	Cambridge line	Public.	40	788	....
Spring Hill ter.	Highland ave.	Belmont st.	Public.	20	673	....
Stanford ter.	Beacon st.	Northeasterly	Private.	20	....	200
Steeves circle	Cherry st.	Easterly	Private.	15	....	120
*Sterling st.	North st.	Pow. House Bd.	Private.	40	....	800
Stickney ave.	Marshall st.	School st.	Public.	40	458	....
St. James ave.	Elm st.	Summer st.	Public.	40	488	...
St. James ave. ext.	Summer st.	Northeasterly	Public.	30	125	....

\*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width in Feet	Length	
			or Private		Public	Private
Stone ave.	Union sq.	Columbus ave.	Public.	40	676	....
Stone ave.	Columbus ave.	Prosp't Hill py.	Public.	38	107	....
Stone pl.	Stone ave.	Southeasterly	Public.	30	142	....
Strathmore rd.	Broadway	Medford line	Private.	40	....	15
Summer	Bow st.	Elm st.	Public.	45	7,900	....
Summit ave.	Walnut st.	Vinal ave.	Public.	45	532	....
Summit	College ave.	Billingham st.	Public.	40	262	....
Sunnyside ave.	Walnut st.	Wigglesworth st.	Public.	25 to 35	306	....
Sunset rd.	Curtis st.	Hillsdale road.	Private.	40	....	658
Sycamore	Broadway	Medford st.	Public.	45	1,275	....
Sycamore	Medford st.	B. & L. R. R.	Public.	40	667	....
Sycamore	B. & L. R. R.	Highland ave.	Public.	35	722	....
Sydney	Grant st.	Temple st.	Public.	40	679	....
Talbot ave.	Packard ave.	College ave.	Private.	50	....	1,409
*Tannery Ex.	Cambridge line	Woodstock st. (Ext'n)	Private.	40	....	160
Taunton	Wyatt. st.	East'y to angle	Private.	30	....	170
Taunton	Angle	Marion st.	Private.	20	....	95
Taylor pl.	Somerville ave.	Southerly	Private.	15	....	200
Taylor	Mystic ave.	Sydney st.	Public.	40	309	....
Teele ave.	Packard ave.	Curtis st.	Public.	40	685	....
Temple	Broadway	Mystic ave.	Public.	66	1,637	....
Tenney ct.	Mystic ave.	Northeasterly	Private.	30	....	400
Tennyson	Forster st.	Pembroke st.	Public.	40	922	....
Thorndike	Holland st.	Arlington Br.				
Thorndike	Arlington Br.	R. R.	Public.	40	465	....
Thorpe	Highland ave.	Kingston st	Public.	40	115	....
Thurston	Broadway	Southwesterly	Public.	30	468	....
Timmins pl.	Dane st.	Richdale ave.	Public.	40	1,660	....
Tower ct.	Tyler st.	Westerly	Private.	3.5	....	97
Tower	Crown st.	Northeasterly	Private.	25	....	150
Tremont pl.	Tremont st.	Highland ave.	Public.	40	559	....
Tremont	Webster ave.	Southeasterly	Private.	about 10	....	75
Trull	Vernon st.	Cambridge line	Public.	40	589	....
Trull lane	Highland ave.	Medford st.	Public.	40	1,050	....
Tufts parkway	College ave.	Oxford st.	Private.	15	....	200
Tufts	Washington st.	College ave.	Public.	22	900	....
Turner ct.	Franklin st.	Cross st.	Public.	40	982	....
Tyler	Vine st.	Westerly	Private.	20	....	150
Union	Broadway	Dane st.	Public.	40	404	....
Union pl.	Linwood st.	Mystic ave.	Public.	40	345	....
Upland Park	Main st.	Southwesterly	Private.	10	....	100
		Southwesterly	Private.	20	....	175
Vermont ave.	Mystic ave.	Penn. ave.	Public.	40	433	....
Vernon	Central st.	Glenwood road	Public.	40	764	....
Vernon	Glenwood road.	Partridge ave.	Public.	40 to 30	190	....
Vernon	Partridge ave.	Lowell st.	Public.	30	434	....
Victoria	Broadway	Cambridge line	Public.	40	1,036	....
Villa ave.	Winslow ave.	Arlington Br.				
		R. R.	Private.	35	....	200
Village	Dane st.	Vine st.	Private.	25	....	370
Vinal ave.	Summer st.	Highland ave.	Public.	45	1,425	....
Vinal	Richardson st.	Northeasterly	Private.	20	....	200
Vine ct.	Vine st.	Northwesterly	Private.	25	....	140
Vine	Somerville ave.	Fitchburg R. R.	Public.	40	540	....
Vine	Fitchburg R. R.	Hanson st.	Private.	40	....	222
Vine	Hanson st.	Beacon st.	Public.	30	662	....
Virginia	Aldrich st.	Jasper st.	Public.	40	405	....
Wade ct.	Cedar st.	Westerly	Private.	20	....	180
Waldo ave.	Beacon st.	Dimick st.	Public.	40	277	....
Waldo	Highland ave.	Hudson st.	Public.	40	287	....
Walker	Broadway	Leonard st.	Public.	40	713	....
Wallace	Holland st.	Broadway	Public.	40	1,342	....
Walnut	Bow st.	Broadway	Public.	40	3,948	....
Walnut road	Walnut st.	Kenneson road	Public.	40	270	....
Walter terrace	Walter st.	Southwesterly	Public.	40	222	....

\*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

Street	From	To	Public	Width	Length	
			or Private	in Feet	Public Private	
Walter	Walnut st.	about 100 ft N. of Bradley st.	Public.	40	548	....
Ward	Medford st.	Harding st.	Public.	30	433	....
Ware	Curtis st.	Russell rd.	Public.	40	749	....
Warner	Pow. House sq.	Medford line	Public.	60	500	....
Warren ave.	Union sq.	Columbus ave.	Public.	40	663	....
Warren	Medford st.	Cambridge line	Public.	30 to 40	109	....
Warwick place	Warwick st.	Northeasterly	Private.	15	....	150
Warwick	Cedar st.	Warwick pl.	Public.	40	665	....
Washington av.	Washington st.	Northerly	Private.	18	....	350
Washington pl.	Washington st.	Southerly	Private.	about 7.5	....	114
Washington	Charlest'n line	Franklin ave.	Public.	75	1,060	....
Washington	Franklin ave.	Fitchburg R. R.	Public.	60 to 100	3,977	....
Washington	Fitchburg R. R.	Cambridge line	Public.	60	2,344	....
Water	South st.	Northerly	Public.	25	366	....
Waterhouse	Broadway	Cambridge line	Public.	40	987	....
Watson	Broadway	Fairmount ave.	Private.	40	....	236
Waverly	Washington st.	Roland st.	Private.	35	....	200
Webster ave.	Union sq.	Cambridge line	Public.	49.5	1,955	....
Webster	Franklin st.	Cross st.	Public.	40	1,034	....
Wellington ave.	Walnut st.	Montgomery av	Public.	40	215	....
Wellington ave.	Montgomery av.	Easterly	Private.	40	....	85
Wesley pk.	Wesley sq.	Northeasterly	Public.	40	405	....
Wesley	Pearl st.	Otis st.	Public.	40	515	....
West	Hawthorne st.	Highland ave.	Public.	30	192	..
West	Highland ave.	Arlington Br. R. R.	Private.	30	....	266
West Adams	Conwell ave.	Medford line	Public.	40	710	....
Westminster	Broadway	Electric ave.	Public.	40	376	....
Weston ave.	Clarendon ave.	Broadway	Private.	40	....	525
West Quincy	Bailey st.	Medford line	Public.	40	292	....
Westwood road	Central st.	Benton road	Public.	40	489	....
Wheatland	Broadway	Mystic ave.	Public.	40	1,364	....
Wheeler	Pinckney st.	Mt. Vernon st.	Public.	40	269	....
Whipple	Highland ave.	Arlington Br. R. R.	Private.	30	....	318
†White	Elm st.	Cambridge line	Public.	..	307	....
White St. pl.	White st.	Southeasterly	Private.	20	....	200
Whitfield road	Packard ave.	Curtis st.	Public.	40	687	....
Whitman	Mason st.	Packard ave.	Public.	40	632	....
Wigglesworth	Pearl st.	Bonair st.	Public.	40	744	....
William	College ave.	Chandler st.	Public.	40	381	....
William	Broadway	Medford line	Private.	50	....	50
Williams ct.	Porter st.	Northwesterly	Private.	30	....	454
Willoughby	Central st.	Sycamore st.	Public.	40	427	....
Willow ave.	Elm st.	Broadway	Public.	50	3,534	....
Willow pl.	Cambridge line	South st.	Public.	25	125	....
Wilson ave.	Broadway	B. & L. R. R.	Public.	20	307	....
Wilton	Lowell st.	Hinckley st.	Public.	35	470	....
Winchester	Broadway	Medford line	Private.	40	....	65
Windom	Elm st.	Summer st.	Public.	40	300	....
Windsor road	Willow ave.	Hancock st.	Public.	40	575	....
Windsor	Cambridge Line	Northerly	Public.	40	40	....
Windsor	End of above	Fitchburg R. R.	Public.	27	490	....
Winslow ave.	College ave.	Clifton st.	Public.	40	1,123	....
Winter	College ave.	Holland st.	Public.	30	402	....
Winter Hill cir.	Broadway	Northeasterly	Private.	25	....	177
Winthrop ave.	Mystic ave.	Middlesex ave.	Private.	40	....	583
Wisconsin ave.	Broadway	Penn. ave.	Public.	50	499	....
Woodbine	Centre st.	Westerly	Private.	30	.....	461
Woodbine Ex.	End of above	Lowell st.	Private.	35	.....	212
*Woods ave.	North st.	Pow. House Bd.	Private.	40	....	1,135
Woodstock	Victoria st.	Alewife brook	Public.	40 to 32	403	....
*Woodstock (Extension)	Victoria st.	Tannery st. (Ext'n.)	Private.	40	....	920
Wyatt circle	Wyatt st. around to	Wva†† st.	Private.	20	....	315
Wyatt	Concord ave.	Lincoln pkway	Public	40	496	....
Yorktown	Cambridge line	N. E. line				
Yorktown	N. E. line	Malvern ave.	Public.	40	294	....
Yorktown	Malvern ave.	Northerly	Private.	40	....	100

\*Proposed.

†Sidewalk in Somerville.



Table Showing the Location, Length and Width of Public and Private Streets.—Concluded.

Street	From	To	Public or Private	Width in Feet		Length	
				Public	Private	Public	Private
Court	39 Adams st.	Southeasterly	Private.	8	....	90	
Court	Albion st.	Central st.	Private.	12	....	216	
Court	11 Albion st.	Northeasterly	Private.	9	....	178	
Court	21 Albion st.	Northeasterly	Private.	10	....	100	
Court	292 Broadway	Southwesterly	Private.	15	....	90	
Court	612 Broadway	Southwesterly	Private.	20	....	188	
Court	Buena Vista rd.	Easterly	Private.	15	....	145	
Court	Cambria st.	Northerly	Private.	9	....	59	
Court	12 Carlton st.	Southeasterly	Private.	25	....	75	
Court	112 Central st.	Northwesterly	Private.	10	....	168	
Court	113 Central st.	Southeasterly	Private.	20	....	150	
Court	227 Columbia st.	Northwesterly	Private.	10	....	117	
Court	Conlon ct.	Windsor st. ex.	Private.	20	....	240	
Court	36 Craigie st.	Westerly	Private.	25	....	126	
Court	59 Craigie st.	Easterly	Private.	23.63	....	129	
Court	58 Dane st.	Easterly	Private.	10	....	70	
Court	20 Dimick st.	Southwesterly	Private.	39.25	....	136	
Court	91 Franklin st.	Westerly	Private.	12	....	171	
Court	35 Lexington ave.	Northerly	Private.	21	....	90	
Court	66 Lowell st.	Westerly	Private.	25	....	101	
Court	78 Lowell st.	Westerly	Private.	25	....	101	
Court	101 Medford st.	Easterly	Private.	8	....	75	
Court	Sacramento st.	Southeasterly	Private.	25	....	318	
Court	335 Somerville av.	Northerly	Private.	15	....	60	
Court	10 Stone ave.	Northwesterly	Private.	20	....	113	
Court	Windsor st. ex.	E'ly and W'ly	Private.	20	....	370	
Court	Washington ave	Franklin st.	Private.	6	....	95	
Total						459,284	81,856

Public, 85.281 miles [includes 1.406 miles of City Boulevard and Park Roadways, 2.331 miles of State Boulevard (Metropolitan Park Commission), and 1.596 miles State Highway]; private 15.502 miles.

Total length of streets in the city, 100.783 miles.

## REPORT OF THE STREET COMMISSIONER.

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OFFICE OF THE STREET COMMISSIONER,  
CITY HALL, Somerville, January 1, 1922.

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen:— I most respectfully submit the forty-sixth annual report, containing a brief summary of the principal work performed by the Highway Department, by day labor and contract, during the year 1921, with recommendations for necessary additions the coming year.

This department has charge of the construction, alteration, repair, maintenance and management of ways, streets, sidewalks and bridges; the setting out and care of shade trees; the suppression of gypsy and brown tail moths, elm leaf beetles and other pests which destroy trees; and the oiling and watering of streets.

### Highway Department Appropriations.

	Appropriations	Expenditures
Highway Maintenance . . . . .	\$56,775 00	
Departmental transfers . . . . .	33,504 99	
	90,279 99	90,173 26
Total credit . . . . .		
Sidewalks maintenance . . . . .	9,091 04	8,750 04
Street Sprinkling . . . . .	39,975 00	39,972 30
Street Cleaning . . . . .	27,775 00	27,581 70
Suppression of Moths . . . . .	4,400 00	4,399 16
Care of Trees . . . . .	6,628 00	6,627 21
New Streets . . . . .	15,751 00	15,750 40
Permanent Pavement . . . . .	83,536 36	81,510 95
Sidewalk Construction . . . . .	15,388 01	15,372 29
Reconstruction and Resurfacing . . . . .	31,325 26	31,298 76
	\$324,149 66	\$321,436 07

The automobile travel from the North Shore to the South Shore increased so rapidly on Webster avenue and Walnut street, that the City Government made these streets, or portions of them, one way streets going south and Franklin street one way north, this has divided the travel going through our city and is a great improvement over the old way, as it saves congestion on these streets and makes them safer for pedestrians.

During the war period prices were so high the Mayor and Aldermen thought it unwise to spend large sums for streets and sidewalks, so for the last few years only necessary work was done.

Now that prices of road materials are on the decline I hope the City Government will make a goodly appropriation the coming year for street work.

Roads and pavements of every type require repair and maintenance. A patching gang, using mostly "Tarvia K. P." have patrolled the streets repairing any defects they might find. The results have been satisfactory. "A patch in time saves nine."

Late this year a "Little Wonder" mixing machine was purchased for mixing "K. P."

Good streets are being demanded especially since the introduction of the automobile, and the Highway Department is doing its utmost, as far as the appropriation will allow, to meet these demands.

My slogan for good roads is "Maintain."

1921.

Highway Maintenance.

Appropriation . . . . .			\$56,775 00
Dr.			
Street Commissioner . . . . .		\$3,100	00
Bookkeeper and clerk . . . . .		2,799	16
Office expenses and telephones . . . . .		431	62
Equipment, repairs, etc. . . . .		4,416	63
Harnesses . . . . .		1,575	15
New horses . . . . .		700	00
Tools and machinery . . . . .		2,463	16
Steam rollers . . . . .		592	98
Stable expenses . . . . .		6,222	52
Hay, grain and feed . . . . .		8,078	35
Shoeing . . . . .		1,817	76
Veterinary, medicine, etc. . . . .		228	42
Repair streets, gutters, crossings . . . . .		10,962	37
Repairs to bridges and approaches . . . . .		470	03
Subways . . . . .		624	19
Care of lanterns . . . . .		1,768	07
Removal of snow and ice . . . . .		5,109	66
Street signs . . . . .		1,803	38
Ledges . . . . .		79	95
Care of Highway property . . . . .		1,314	67
Emergency . . . . .		202	39
Automobiles, New \$1,204.49 maint. \$3,164.00		4,368	49
Sawing wood . . . . .		624	66
Allowance for holidays . . . . .		3,217	95
Allowance for vacations . . . . .		3,652	60
Crushed stone . . . . .		2,090	21

Sand and gravel . . . . .	6,503 88	
Cinders . . . . .	246 51	
Lumber . . . . .	330 04	
Bricks . . . . .	416 04	
Cement, lampblack . . . . .	925 34	
Gasoline, kerosine, lubricating oils . . . . .	1,924 15	
Fuel . . . . .	533 97	
Tarvia . . . . .	712 92	
Bills Receivable, (driveways, etc.) . . . . .	3,176 00	
Departmental charges, (other departments) . . . . .	6,657 48	
Miscellaneous . . . . .	43 56	
	<hr/>	
	\$90,173 26	
Credit . . . . .	33,504 99	\$56,668 27
	<hr/>	
Balance . . . . .		\$106 73

#### Snow and Ice.

This year I have purchased some new equipment and made over some old ploughs and levelers so that now this department is ready to remove snow and keep the roads open for travel.

This department removes the snow and ice from sidewalks, and sands when necessary in front of all public buildings, grounds and schools.

121 requests and reports were attended to.

\$5,109.66 was expended for the care of snow and ice. 1090 cubic yards of snow and ice were removed. 20 cubic yards of sand and 298 cubic yards of ashes were used in caring for icy sidewalks, streets and crossings.

#### Bridges.

I recommended last year that extensive repairs must be made to the Lowell street bridges, which was not done. These bridges must be repaired this year. The other bridges are in good condition.

#### Underground Wires.

Outside of a few underground connections no underground conduits were constructed this year.

#### Crushed Stone.

The William J. McCarthy Co. furnished 32 tons of local crushed rock at \$2.00 per ton at their crusher and 5629 tons at \$2.40 per ton on the line of work. Coleman Brothers 1461 tons of trap rock at \$2.48 per ton on line of work. General

Crushed Stone Co. 295 tons of trap pea stone at \$2.80 per ton and 180 tons of nut trap rock at \$2.50 per ton delivered on line of work.

#### Steam Rollers.

No. 1 roller worked 126 days.

No. 4 roller worked 66 days.

The No. 4 roller should be equipped with a road scarifier and the old No. 2 roller should be exchanged for a new fifteen ton maintenance roller.

#### Sidewalks Maintenance.

The old brick sidewalk on the south side of Somerville avenue from Union square westerly was removed and 460 square yards of granolithic laid, this work should be extended to Gerrior square the coming year. This same construction should be extended in all the squares. I have had some trouble in the past maintaining dirt sidewalks on hills and side-hills, but with the introduction of "K. P." mixed with pea stone and spread over these dirt sidewalks, then covered with fine gravel I find that I have eliminated all trouble in regard to these sidewalks washing out after every heavy shower.

1220.9 linear feet of edgestones were reset. 1370 square yards of brick sidewalks were relaid. 421 square yards of paved gutters were repaved and 15 square yards of granolithic were relaid.

All police reports pertaining to this kind of work are charged to this appropriation.

\$8,750.04 was expended for Sidewalks Maintenance.

#### Street Sprinkling.

The American Car Sprinkler Company sprinkles and flushes nearly all of our main streets for \$925.00 per month, eight hours per day and seven days per week. Before the war this car worked twelve hours per day and all the squares were flushed before 7 A. M. giving great satisfaction to all the store keepers by having the squares cleaned every day before their stores were opened for business.

Only one car of Non-Asphaltic oil was used this year. Tarvia B and Tarco were used on macadam streets.

I most respectfully recommend the purchase of a new auto oiling truck.

Dust layers used during the year:—

- 193,839 gallons of Tarvia "B" (Barrett's).
- 67,178 gallons of Tarco (Flemmings).
- 6,068 gallons of McKenna's Non-Asphaltic.
- 950 gallons of Alden Spears Sons Non-Asphaltic.

This division of the department is self supporting.  
\$39,972.30 was expended for Street Sprinkling.

#### Street Cleaning.

The scarcity of dumps has increased the cost of this division greatly. In some of the squares where a push cart man could care for the same, when he had a near dump now with the scarcity of dumps this man must have a team because the haul is so far from his work.

If some of the tenants and storekeepers who complain about rubbish in the streets would be a little more careful themselves and not throw or sweep rubbish into the streets, I know our city would have a more tidy appearance.

6,525 cubic yards of street sweepings were removed.  
\$27,581.70 was expended for Street Cleaning.

#### Suppression of Moths.

Under this appropriation the city cares for all trees both public and private, in regard to moths. Street trees are sprayed in the spring and summer.

This year I found very few brown tail moths. The Satin moth is raising havoc with our poplar trees.

This division gives work to quite a number of men in the winter.

- 9,112 street trees were inspected and cared for.
- 12,751 private trees were inspected and cared for.
- 14,572 bushes were found moth infested.
- 5,711 fences and buildings on which moths nested.
- 57,118 gypsy moth nests were painted with creosote.
- 108 brown tail moth nests were gathered and destroyed.
- 7,620 trees were sprayed by the gasoline spraying machine to exterminate the different kinds of caterpillars and beetles.

\$4,399 16 was expended for the Suppression of Moths.

#### Shade Trees.

If the city does not appropriate any money for the setting out of shade trees, in a few years this city will not have any street trees, because of electric wires, gas leaks, permanent pav-

ing, insects and sleet storms (such as we had on November 28, 1921) killing and destroying our trees. The storm of November hit nearly every tree in our city and this department attended to 450 reports and requests and had to work nights in order to clear our streets and sidewalks. The trees that were hit by this storm must be attended to in regard to cutting off the stumps of broken branches and painting the same.

72 trees were set out.  
119 trees were removed.  
717 trees were trimmed.  
83 tree guards and supports installed.

\$6,627.21 was expended for Care of Trees.

#### Highway Construction — New Streets.

Four new streets were constructed during the year under the Betterment Act, by contract with William J. Sullivan, viz:

Setting edgestones 75c per linear foot.  
Gutter construction \$3.75 per square yard.  
Construction of Macadam roadway \$1.90 per square yard.

The city furnished the edgestone and tarvia binder. Straight edgestone \$1.30 per linear foot. Circles \$1.75 per linear foot from H. H. Fletcher Company, delivered on line of work.

Tarco X binder 14½c per gallon from H. A. Fleming Company, delivered and sprayed on work.

Nine new streets were accepted this year.

\$15,750.40 was expended for New Streets.

NEW STREETS CONSTRUCTED IN 1921.

Street	From	To	Material	Length	Cost
Crescent street	Boston line	Hadley street	Bituminous	402	\$3,130 52
Dickson street	Broadway	Fairmount avenue	"	271	3,268 25
Cedar avenue	Cedar street	Linden avenue	"	290	2,635 31
Spring Hill Terrace	Highland avenue	Belmont street	"	670	5,979 42

PERMANENT PAVEMENT, 1921.

Street	From	To	Material	Sq. Yds.	Cost
Beacon street	E'ly Sacramento St.	R. R. Bridge	Granite Blks.on concrete base	2598.7	\$19,541 07
Broadway	Cambridge line	Cooney street	Granite Blks.on concrete base	1478	11,532 40
Linwood street	Arthur street	Charlestown line	Grass plot Macadamized	2540	4,654 28
Linwood street	Congress place	Fitchburg street	Granite Blks.on concrete base	1924.8	15,001 68
Tufts street	Dix place	northerly	Granite Blks.on concrete base	1911.4	14,795 76
North street	South of Glen street	Cross street	Granite Blks.on concrete base	2049	15,106 63
	Already laid	Medford line	Concrete gutters	210	888 13



**Sidewalks Construction.**

The contracts for granolithic sidewalks were let to Denis I. Crimmings and Peter Salvi, of Somerville, who furnished all the material and did the excavation at \$3.25 per square yard.

Miles of edgestones, granolithic, brick and gravel sidewalks in the city:—

Edgestones . . . . .	147.137 miles
Granolithic sidewalks . . . . .	54.001 miles
Brick sidewalks . . . . .	71.303 miles
Gravel sidewalks . . . . .	23.006 miles

\$15,372.29 was expended for Sidewalks Construction.

**Highways Construction — Permanent Pavement.**

Contract was let to William J. Sullivan at \$7.45 a square yard, for paving with granite (4") paving blocks grouted with cement on a concrete base. He furnished all materials and did the excavating.

\$81,510.95 was expended for Permanent Pavement.

**Reconstruction and Resurfacing.**

Eleven streets were reconstructed or resurfaced under this appropriation at an average cost of \$3.32 per linear foot, by city employees.

The expense for this work is taken from the tax levy, instead of on a five year bond, thus saving a large amount of interest the city used to pay.

This kind of work makes a great improvement in our city and satisfies a number of residents and tax payers.

The Barrett Co. furnished Tar binder Tarvia "X" at 12c per gallon F. O. B. factory.

A big improvement was made on Broadway from the Charlestown line to Arthur street. The grass reserved space between the tracks of the Boston Elevated Street Railway Company was removed and suitable filling with a Tarvia top was constructed, which by far gives the street a better appearance and a chance to cross the tracks wherever one desires.

\$31,298.76 was expended for Reconstruction and Resurfacing.

SIDEWALK CONSTRUCTION.

Street	Location	Material	Sq. Yds.	Cost
Auburn avenue .....	In front estate No. 29 . . . . .	Grano.	21	\$75 45
Broadway .....	Northerly side — Walker St. to Leonard St. . . . .	"	807.1	2,640 08
Cedar avenue .....	Both sides — Cedar St. to Linden avenue . . . . .	"	177.3	577 23
Central road .....	In front estates Nos. 32-40 . . . . .	"	12.3	39 73
Cottage avenue .....	Southwesterly side — Russell St. to Cheste. St. . . . .	"	291.8	1,726 98
Craigie street .....	Westerly side . . . . .	"	859.7	3,248 49
Crescent street .....	Westerly side — Pearl St. to City line . . . . .	"	268.5	872 63
Dickson street .....	Both sides — Fremont street to Broadway . . . . .	"	336	1,092 50
Elston street .....	Both sides . . . . .	"	539.8	1,889 24
Highland avenue—Central St. . . . .	Locatelli Block . . . . .	"	171.3	670 71
Leonard street .....	Side of estate No. 941-943 Broadway . . . . .	"	59.6	193 70
Lowell street .....	New England Breakfast Food Co. . . . .	"	89.1	312 18
Lowell street .....	In front estates No. 358-360 . . . . .	"	26.1	84 83
Lowell street .....	In front estates No. 362-364 . . . . .	"	29.3	96 23
Mallet street .....	Side of estate — No. 26 Bay State avenue . . . . .	"	68	222 00
Pinckney street .....	Easterly side — Perkins street to Wheeler street . . . . .	"	132.8	500 57
Spring Hill Terrace .....	Both sides . . . . .	"	329.9	1,080 68

RECONSTRUCTION AND RESURFACING.

Streets Reconstructed and Resurfaced in 1921.

Street	From	To	Width	Length	Cost
Bond street	Broadway	Jaques street	40	655	\$1,984 74
Boston street	Prospect Hill avenue	Walnut street	40	1242	3,372 92
Central street	Medford street	Broadway	45	1079	3,706 57
Central street	Somerville avenue	Summer street	35	1043	3,203 84
Delaware street	Aldrich street	Pearl street	40	451	980 03
Dickinson street	Springfield street	Beacon street	40	770	2,913 22
Joy street	Washington street	Poplar street	30	1121	2,521 82
Lincoln avenue	Lincoln street	Mt. Vernon street	30	478	1,001 65
North street	Already constructed	Medford line	40	649	2,767 42
Park street	Beacon street	Somerville avenue	50	1238	7,444 91
Sydney street	Grant street	Temple street	40	679	1,401 64

## Miscellaneous.

- 80 Granolithic driveways constructed.
- 70 Brick driveways constructed.
- 31 Edgestones dropped for driveways.
- 5 Driveways extended.
- 5 Driveways discontinued.
- 4 Carriage walks constructed.

Driveways are constructed, discontinued, relocated or extended at the expense of the petitioners.

Length of public streets 85.281 miles.

Six horses were killed on account of disability and six horses purchased during the year.

The department maintains its own municipal repair shop for the different lines of work.

763 horses were shod during the year. Our horses, during the slippery going in the winter, must be sharp shod because we must have the sidewalks and hills sanded for others to travel on.

I have attended meetings of the Public Works and of the Board of Aldermen for consultation regarding work and petitions.

## Labor.

Eight hours constitute a day.

The regular employees are given two weeks vacation and all employees twelve months Saturday half-holiday without loss of pay.

Laborers receive \$4.00, drivers and chauffeurs \$4.10, mechanics \$4.50 and engineers \$4.75 per day.

The city does its own insuring for injured laborers. There are nineteen former employees receiving pensions under the act providing for the pensioning of laborers.

There were during 1921 :—

- 111 permits issued to the Cambridge and Charlestown Gas Companies.
- 103 permits issued to cross sidewalks.
- 338 permits issued to occupy streets and sidewalks.
- 27 permits issued to feed horses.
- 29 street sprinkling complaints and requests.
- 189 notifications to other departments and corporations.
- 21 accident reports.
- 912 police reports.
- 704 brick and granolithic sidewalks repaired.
- 1142 miscellaneous reports and requests.
- 87 drain layers permits.
- 593 water department openings.
- 118 permits to open streets and sidewalks.

40 danger and traffic signs erected.  
25 new signs erected.  
136 signs repainted.  
21 streets cleaned by request.  
3538 cubic yards of sand and gravel used.  
2685 cubic yards of dirt removed.  
1019 cubic yards of ashes used.  
1203 cubic yards of old macadam used.  
1086 bags of Portland cement used.

#### Recommendations.

I most respectfully recommend that Somerville avenue from Beacon street to Porter Station, Cambridge, be paved with granite blocks grouted on a concrete base; that Linwood street and the north side of Beacon street be completed. That the north side of Washington street from Tufts street to Charlestown line be repaved and placed on a concrete base instead of a gravel base, also on Somerville avenue between Union square and Gerrior square. I recommend the purchase of a Ford ton truck with dump body, auto truck oiler and that a fire proof garage be erected at the city stable yard.

I desire to express my appreciation of the assistance and co-operation of His Honor, Charles W. Eldridge, Board of Aldermen, Public Works Committee, Heads of Departments and employees of this department and I should also feel as if I was not doing my duty if I neglected to thank the citizens for notifying my department of defects in the streets and side-walks.

Respectfully submitted,

ASA B. PRICHARD,

*Street Commissioner.*

## REPORT OF COMMISSIONER OF PUBLIC BUILDINGS.

City Hall, Somerville, January 1, 1922.

To the Honorable, the Mayor, and the Board of Aldermen of the  
City of Somerville:—

Gentlemen:—

In accordance with the provisions of the City Charter, I submit herewith the annual report of the public buildings department for the year ending December 31, 1921.

The total valuation of the public property which is in the custody of the public buildings department is approximately \$3,560,000.

The total expenditure for the year 1921 for the care and maintenance of this property was \$228,610.13.

This amount was expended as follows:

	Janitors	Fuel	Light	Care and Repairs	Totals
School Buildings . . . . .	\$60,742 33	\$50,368 23	\$11,278 45	\$39,715 19	\$162,104 20
Municipal Buildings . . . . .	4,673 30	2,365 06	1,754 50	2,536 35	11,329 21
Polling Places . . . . .	.....	11 86	16 27	443 84	471 97
Police Buildings . . . . .	1,990 92	1,900 39	724 03	1,064 66	5,680 00
Fire Buildings . . . . .	.....	6,245 02	3,087 59	4,703 61	14,036 22
Electrical Dept. . . . .	795 00	802 84	118 23	48 65	1,764 72
Contagious Hospital . . . . .	424 00	2,610 93	574 33	1,253 25	4,862 51
Sewer Building . . . . .	.....	82 25	21 25	101 19	204 69
Sanitary Buildings . . . . .	.....	428 54	208 73	1,532 00	2,169 27
Highway Buildings . . . . .	.....	534 78	236 54	708 72	1,480 04
City Home Buildings . . . . .	.....	2,232 86	657 46	962 71	3,853 03
Central Library . . . . .	3,148 30	990 50	1,499 39	548 93	6,187 12
West Branch Library . . . . .	1,378 00	568 14	467 40	353 33	2,766 87
East Branch Library . . . . .	1,113 00	529 19	239 57	52 65	1,934 41
Union Sq. Br. Library . . . . .	1,113 00	693 95	298 68	65 27	2,170 90
Park Buildings . . . . .	385 00	202 95	557 68	1,375 57	2,521 20
Bathhouse . . . . .	1,036 97	.....	.....	1,345 20	2,382 17
Bandstand . . . . .	.....	.....	1 50	247 17	248 67
Water Buildings . . . . .	.....	404 68	350 01	1,688 24	2,442 93
Totals . . . . .	\$76,799 82	\$70,972 17	\$22,091 61	\$58,746 53	\$228,610 13

### Inspection of Buildings.

The Commissioner of Public Buildings is also the inspector of buildings according to the terms of the charter and as such during the past year has made 1872 formal inspections of buildings in the process of construction.

The following table shows the number of permits issued for building operations during the year 1921:—

Buildings	WARDS							Totals
	1	2	3	4	5	6	7	
Dwellings . . . . .	32	22	14	15	35	46	106	270
Stores . . . . .	6	2	....	2	3	3	8	24
Dwellings and stores	5	2	....	1	....	2	2	12
Garages . . . . .	27	23	21	20	45	53	92	281
Storage . . . . .	3	3	1	3	....	3	5	18
Manufactories . . . . .	4	3	..	....	2	2	2	13
Sheds . . . . .	13	8	1	4	7	3	10	46
Offices . . . . .	2	....	....	....	....	....	2	4
Stables . . . . .	3	1	....	2	1	3	2	12
Shops . . . . .	3	....	....	....	....	2	2	7
Banks . . . . .	....	....	....	....	....	....	1	1
Theatres . . . . .	....	....	....	....	1	....	1	2
Churches . . . . .	....	....	....	2	1	....	1	4
Convent . . . . .	....	1	....	....	....	....	....	1
Warehouse . . . . .	....	1	....	....	....	....	....	1
Bakery . . . . .	1	....	....	....	....	....	....	1
Laundry . . . . .	....	....	....	....	....	....	1	1
Miscellaneous . . . . .	6	6	1	1	....	....	2	16
<b>Totals . . . . .</b>	<b>105</b>	<b>72</b>	<b>38</b>	<b>50</b>	<b>95</b>	<b>117</b>	<b>237</b>	<b>714</b>

	Wood	Fire resisting	Totals
New Buildings . . . . .	135	290	425
Alterations . . . . .	233	18	251
<b>Totals . . . . .</b>	<b>368</b>	<b>308</b>	<b>676</b>

38 Buildings were torn down.

Buildings	WARDS							Totals
	1	2	3	4	5	6	7	
Wood . . . . .	65	41	16	29	43	57	135	386
Wood and Cement . . . . .	3	1	2	2	1	4	8	21
Wood and Concrete . . . . .	3	1	....	....	2	1	1	8
Wood and Tile . . . . .	....	....	....	....	....	1	....	1
Wood and Metal . . . . .	1	....	....	....	....	....	....	1
Fireproofed Wood . . . . .	1	2	....	....	3	1	3	10
Brick . . . . .	3	2	....	1	1	1	4	12
Brick and Wood . . . . .	1	3	....	....	1	1	2	8
Brick and Concrete . . . . .	2	1	....	1	....	....	3	7
Cement Block . . . . .	14	12	16	11	32	37	58	180
Concrete . . . . .	10	6	3	5	9	9	19	61
Steel . . . . .	2	3	1	1	3	4	3	17
Miscellaneous . . . . .	....	....	....	....	....	....	....	....
Galvanized Iron . . . . .	....	....	....	....	....	1	....	1
Terra Cotta Tile . . . . .	....	....	....	....	....	....	1	1
<b>Totals . . . . .</b>	<b>105</b>	<b>72</b>	<b>38</b>	<b>50</b>	<b>95</b>	<b>117</b>	<b>237</b>	<b>714</b>

The number of plumbing permits issued during 1921, was . . . . .	233
Number of permits for plumbing in new buildings . . . . .	63
Number of permits for plumbing in old buildings . . . . .	170
Number of buildings in which soil pipes were tested . . . . .	174

The total estimated cost of the new buildings and alterations during the year 1921 was \$1,838,455, while the estimated cost in 1920 was \$1,384,456, showing an increase of \$453,999.

The total number of permits issued during the year 1921, viz. 714, was 316 more than during the year 1920, when 398 permits for new buildings and alterations were issued, showing an increase of 80 per cent.

There has been considerable speculative building of dwellings going on this year, or to be exact there were permits issued for 93 new buildings housing 204 families.

Single family houses have been altered into two family houses and some of the larger houses have been altered into small kitchenette suites. These types of alterations demand very careful inspection and supervision by this department and entail considerable more time than new construction.

On September 1, 1918, the Board of Aldermen of the City of Somerville passed an ordinance requiring a fee to be collected for every building permit issued by this department. In accordance with this, fees collected for building permits during the year 1921 amounted to \$1840.

The Commissioner has under his charge and direction the work of maintenance and keeping in repair all of the eighty-four public buildings of the city and the grounds in connection therewith, all janitors in the city's employ, a force of nine mechanics who perform most of the work of keeping the buildings in repair, the inspection of installation and care of all elevators, the supervision of construction of all new municipal buildings, the maintenance of the public bathing beach, and public municipal baths in the Bennett and Bingham Schools, and Lincoln Park.

The various activities in connection with the department work require a vast amount of time and attention in order to keep the property in proper condition for occupancy.

#### Coal.

As in the past years an invitation for bids was advertised for supplying the necessary tonnage of both anthracite and bituminous coal for the city buildings for the winter of 1921 and spring of 1922. The wisdom of this has been amply justified as there has been a large saving in money on anthracite coal as a result of this decision.

Several bids were received and after taking the same under consideration, His Honor, the Mayor decided to accept the bid for bituminous coal from a local concern.

The bids for anthracite coal were extremely high and were rejected and it was decided to have this kind of coal purchased direct by this department.



### Elevators.

According to an act of the Legislature, the Building Commissioner is required to have every elevator in the city inspected yearly, and a report of the conditions and necessary repairs made to the State District Police.

Plans and specifications of all new installations of elevators must be filed in this office and certificates of approval granted by the Commissioner.

During the year 1921, there were 138 elevators inspected and 33 orders for repairs to be made to 63 elevators, sent to the owners.

Plans and specifications were filed and applications granted for the installation of three new elevators.

### School Buildings.

The maintenance and care of the school buildings has, as formerly demanded the most vigilant attention from this department and the appropriation made for that purpose has, I believe, been expended carefully and judiciously.

Every year before the summer vacation arrives this department sends out a blank to be filled in by both the principals and janitors of the schools for all requisitions and repairs needed.

These repairs and requests are taken up with the Superintendent of Schools, and taken care of in the order which he suggests so far as the appropriation will allow.

First are taken into consideration the requests and repairs absolutely needed for the opening of schools. Then the others are taken up in the order of their importance. This in itself is a huge task as the wants of every section must be taken into consideration.

Among the necessary repairs that were taken care of this year are the following:

Nine boilers were retubed. A number of grates were installed and repairs made on 24 other boilers.

Steam repairs were made in 18 buildings.

Plaster repairs were made in 10 buildings.

Plumbing repairs and new installations were made in 22 buildings.

New water service with larger main installed in High School.

Mason repairs were made in 10 buildings besides repairs of fire boxes of boilers in nearly every building.

Eighty-three teachers' guest chairs were recaned.

One teachers' couch was purchased.

Roof leaks and other roof repairs were taken care of on eleven buildings.

Carpenter repairs, such as:

Window cords.

Repairing and tightening furniture.

Fitting up two rooms in Cutler, and one each in the Morse and Bingham Schools for kindergarten, and three recitation rooms made out of Hall at the Eastern Junior High and also putting extra desks and chairs in sewing room and typewriting room.

### Painting:

On all school buildings the outside doors were repainted and the basements whitewashed.

At the High School the Teachers' rooms and office walls and ceilings were tinted and the woodwork varnished.

Three thousand desk tops, 45 teachers' desks and 30 tables in various schools refinished and varnished.

All toilet seats finished in white enamel and several school toilets painted out.

2,500 students' chairs in several buildings refinished and varnished.

Window sashes in several schools were painted and puttied.

### Lighting:

Proper lighting of school rooms is a problem to which the head of this department has given considerable time and study. We have made a good start during the past three years and established a system, from experience gained by studying the methods of other cities, which we intend to follow up until every school has the proper lighting required.

The extension to the present service has been installed in the Prescott, Knapp, Northern Junior High and Hanscom School buildings.

Changes were made in nine rooms in the High School building by enlarging and lowering the present lighting fixtures.

### Heating:

At the Bell School additional radiation has been installed in a basement room, thus bringing the temperature of this room up to a satisfactory standard for school purposes.

At the Eastern Junior High School a new connection has been installed between the heat and fan ducts which has obviated the objectionable noise made by the motor and fan.

A new hot water system has been installed in the cooking-room of the Northern Junior High school, thus filling a much needed want.

At the Bennett School, a new 500-gallon hot water boiler and heater have replaced the gas hot water heater for shower baths which has already nearly paid for itself besides giving an unlimited supply of hot water.

### Furniture:

Owing to changes in grades in several of the school buildings, we have been obliged to change several rooms of furniture during the past year as follows:

One room in Bingham School.

Two rooms in Knapp School.

One room in Baxter School.

One room in Bennett School.

New furniture has been purchased, including teachers' desks, and chairs, 75 guest chairs, two new couches, and pupil's desks and chairs for grade schools.

New tablet arm chairs have been purchased for recitation rooms of the several junior high schools.

Folding chairs have been purchased for the several school halls, thereby filling a much needed want and saving of money in transportation.

We now have Halls equipped as follows :

Eastern Junior High . . . . .	200	Folding	Chairs
Southern Junior High . . . . .	200	"	"
Northern Junior High . . . . .	100	"	"
Western Junior High . . . . .	200	"	"
Bennett School . . . . .	100	"	"
Knapp School . . . . .	300	"	"
Carr School . . . . .	100	"	"
Burns School . . . . .	75	"	"
Bingham School . . . . .	250	"	"
Brown School . . . . .	100	"	"
Cutler School . . . . .	100	"	"
High School . . . . .	1,400	"	"

These halls are meeting the community requirements of their several districts for public meetings and for social and community work, as well as adding to the general educational work of the various schools.

#### Fire Department Buildings.

There has been considerable work done and many improvements made in the several fire department buildings.

The apparatus floor of Engine Six House has been remodelled. The horse stalls have been done away with, thus making a large repair shop in the rear, enclosed with a partition with large doors, so that the apparatus may be run into the shop from the main floor.

At the Union Square Fire Station, the floor framing was reinforced to sustain the weight of the new apparatus.

Engine Six House has been thoroughly painted outside.  
Heating :

A new steam heating plant was installed in Engine Six House, doing away with the old combination heater. Additional heating surface was installed making provisions for alteration for new sleeping quarters which are anticipated with the growth of the house.

At Hose 8 House, a new steam heating plant was installed, doing away with the old combination heater which was wholly inadequate to properly heat the building. Additional heating surface was added providing for shop in the rear of the apparatus floor, also for rooms on the second floor.

The most pressing needs for this year will be the following:

New boiler in Engine Two.

Changes on 2nd floor of Engine 6, making new sleeping quarters, Chief's room and recreation room.

New floor in shop, Central Station, and apparatus floor, Engine Two.

Several other minor repairs are being considered and will be carried out as far as necessary.

I urgently recommend something being done at Engine Four House. This building is in such bad shape that it does not seem wise to spend any money on repairs, and as a fire station is needed in this locality, I urgently recommend it being torn down and a modern building erected on a new site where the land is less valuable, thus making a vacant lot for commercial purposes which will bring in much needed revenue to the city. There is much material in the present building which could be used in the new.

#### Municipal Buildings.

The municipal buildings consisting of City Hall and City Hall Annex, are in fair condition generally.

Considerable new fittings and furniture have been requested by the various departments.

During the past year only such repairs as were absolutely necessary were attended to.

I most urgently recommend the connection of the heating plants of the City Hall and City Hall Annex with the Central Heating Plant which would save considerable coal.

#### Libraries.

Very few repairs were necessary at any of the libraries the past year as the buildings are in very fair condition.

The exterior of the East Somerville Branch Library building was repainted with two coats and much of the furniture refinished.

At the West Somerville Branch Library the roof has received much needed repairs.

There is also quite a little new furniture required this year which is much needed.

#### **Water, Highway, Sanitary and Sewer Buildings.**

##### **Water Buildings:**

A new heating plant has been installed in the Water Department building, and the old boiler and pump removed, making a shop out of the old boiler room. This called for the installation of considerable new radiation, allowance for which was made when the boiler was installed.

The new boiler was set up in the basement making a gravity heating plant, doing away with the pump and receiver, thus allowing the plant to be operated on any pressure from vapor to 15 pounds, according to weather conditions.

##### **Highway Buildings:**

A new heating plant has been installed in the shed now used as a garage with an upright boiler large enough to take care of additional heating surface when required.

A new building should be erected for a garage of first class construction, properly heated, to take care of the ever increasing demands for motorized apparatus.

The Highway, Sanitary and Sewer Buildings call for many repairs. Stall bottoms must be replaced, roof and other repairs made each year.

#### **Hospital Buildings.**

General repairs were made this last year in these buildings as follows:

Quite extensive repairs were made to piazzas, steps, etc. and some painting was done on the interior.

There is still much to be done, however, in order to keep these buildings in proper sanitary condition.

#### **City Home Buildings.**

These buildings are old buildings and continually in need of repairs and replacements.

Considerable work has been done in the past year and there is still more to be done this year.

During the past year a new henhouse has been added to the farm buildings enabling the Overseer to handle a much larger line of poultry. The piggery has been altered over so that this building may also be used for poultry.

Besides these repairs considerable furniture had to be purchased.

Request has been made by the Overseers of the Poor for quite an amount of work to be done this coming year.

#### Police.

There have been many needed repairs made to this building during the past year, but there are still more needed, which we hope to accomplish this coming year.

Additional furniture has been bought and a new office fitted up for the inspector in charge of automobile listing, which is required by law.

I urgently recommend that a new heating plant be installed in the stable and garage in the rear. This is needed to properly heat these buildings as the heater in the stable is beyond repair and there is no heat in the garage.

#### Bathhouse.

The public bathhouse on the Mystic River at Wellington Bridge was opened and maintained as usual this year with a good attendance.

We were able to secure 500 tons of sand for the resanding of the beach which was greatly appreciated by the patrons.

I would recommend building a permanent breakwater to save this building from being undermined. Every year the bank is being cut into by the rough water during the winter, until a part of the fence, recently erected by the Metropolitan Park Commission, is undermined.

The present bathing beach should be dredged out so as to have water at low tide.

#### Park Buildings.

This coming year the building located in Broadway Park will need considerable attention in the way of repairs as the building leaks badly and new sills must be installed.

I heartily recommend the erection of a permanent bandstand in Broadway Park, as it is fair to assume that we will continue to have more band concerts here in the future than in the past, and there is no permanent place to have such affairs in the city.

An addition has been made to the appropriation for a new recreation building to be located in Recreation Field, West

Somerville, this building to have toilet facilities for the public and locker and shower bath rooms for the various athletic teams.

Drawings have been made by the Building Commissioner for such a building and an appropriation of about \$10,000 stands available to be used this year.

**In General.**

The Building Commissioner has had the co-operation of all branches of the City Government, including His Honor, the Mayor, the honorable members of the Board of Aldermen and all the city officials, and desires to thank them for their kindly consideration.

Respectfully submitted,

GEORGE L. DUDLEY,

*Commissioner of Public Buildings.*

## REPORT OF THE COMMISSIONER OF ELECTRIC LINES AND LIGHTS.

Somerville, Mass., January 1, 1922.

To the Honorable, the Mayor and the Board of Aldermen of the  
City of Somerville.

Gentlemen:—

I most respectfully submit my thirteenth annual report as Commissioner of Electric Lines and Lights for the year ending December 31, 1921.

### Inspection of Wiring in Buildings.

The number of installations of wiring for light, heat and power have increased materially over last year, consequently requiring a greater number of inspections.

More new buildings have been erected and more old buildings have been wired than last year.

The rules and requirements of the "National Electrical Code" under which all work is done necessitates a most careful and systematic inspection of all installations of electrical work to make sure that all of the requirements have been lived up to.

The work as a whole shows an improvement and no fires have resulted that can be laid directly to defective wiring.

I again call attention to the practice of attaching flat irons, washing machines and cooking appliances to lighting fixtures which cannot be too strongly condemned.

It not only overloads the circuit but requires the replacing of proper fuses, which are placed to properly protect the fixtures and sockets, with larger fuses to carry the additional load and are not approved.

Separate circuits should be run for such attachments.

Any changes in the original wiring or connected load should be reported immediately to the inspection department.

Number of notifications of new work . . . .	1741
Number of inspections of new work . . . .	2367
Number of re-inspections of new work . . . .	246
Number of inspections of old work . . . .	100
Number of defective installations of old work . . . .	10
Number of defective installations remedied . . . .	10
Number of re-inspections of old work . . . .	26
Total number of inspections . . . .	2739



Number of permits issued to the Edison Electric Illuminating Co., for installing meters, lamps, etc.	3316
Number of permits issued to the Malden Electric Co.	1
Number of permits issued to the Charlestown Gas & Electric Co., . . . . .	1

**Fire Alarm System.**

The Fire Alarm System is in first class condition and is giving excellent service.

The ice storm of November 28th and 29th, caused considerable damage to the Fire Alarm System but it was kept in working order throughout the entire storm.

Some replacements of equipment are necessary.

The storage batteries which supply current for the Fire Alarm System have been in constant use since 1917 and will have to be replaced this coming year.

266 bell alarms have been received and transmitted during the year.

Over the central telephone desk with connections to each Fire Station 564 calls for fire have been received and telephone alarms sent to the different stations.

3 A. D. T. alarms have been received at headquarters and transmitted over our own system to the Fire Stations.

The central office equipment consists of the following:

- 2 — 6 circuit operating boards.
- 1 — 5 circuit tapper board.
- 1 — 5 circuit gong board.
- 2 — 16 circuit storage battery charging boards.
- 1 — 32 circuit protector board.
- 1 — 12 circuit automatic repeater.
- 1 — 1 dial, 4 number manual transmitter.
- 2 — 5 circuit punching registers.
- 13 punching registers and take up reels.
- 2 automatic time and date stamps.
- 1 master clock.
- 940 cells storage battery.
- 5 — 10 foot, 4-shelf battery racks.
- 4 metropolitan tappers and 2 gongs.

The apparatus outside the central office consists of the following:

- 131 signal boxes.
- 8 tower strikers.
- 45 gongs.
- 10 punching registers.
- 20 tappers.
- 1 automatic steam whistle.
- 9 private telephones.
- About 60 miles of overhead wires.
- About 78 miles of underground wires.

2800 feet of new twisted pair wire has been run and 2000 feet of old overhead wire has been replaced by new.

No new underground wires were installed last year but provisions are made to continue the work during the present year.

#### Police Signal System.

The Police Signal System is giving the same excellent service as in former years.

Boxes have been thoroughly tested and found to be in good working order. Some replacements have been made this past year and some others will have to be made this year on account of wear.

The system consists of the following:

- 1 — 4 circuit police desk.
- 59 street signal boxes.
- 4 special boxes.
- About 19½ miles of overhead wires.
- About 13 miles of underground wires.

#### Supervision of Poles and Wires on the Streets.

The same attention has been given to the condition of poles and wires on the streets as in previous years. A number of defective poles have been replaced by companies owning same. New poles have been placed in locations granted for the purpose of supplying lighting and telephone service and abandoned poles have been removed.

	New poles	Re-placed	Re-moved	Re-set
New England Telephone & Telegraph Company . . . . .	1	12	1	2
Edison Electric Illuminating Company . . . . .	32	74	5	2
Boston Elevated Railway Company . . . . .	11	1	16	2
Permits given to the New England Tel. & Tel. Co., for attachments to the Edison Company's poles . . . . .	239			
Permits given to the Edison Electric Ill. Co., for attachments to the New England Tel. & Tel. Company's poles . . . . .	107			

#### Street Lighting.

The matter of street lighting has had the same attention as in previous years and additional lights have been placed in various parts of the City.

More lights are required in the western part of the City as some new streets are inadequately lighted.

Our contract with the Edison Company for street lighting having expired, the cost of street lighting has been materially increased, necessitating economy in the placing of new lights.

Additional spot lights have been installed at places where traffic officers are posted and are of great assistance to them.

The new "white way" system of lights is being installed in Union Square and will soon be in use.

The number of Street lights January 1, 1922, are as follows:

134 Magnetite lights.  
376 — 600 C. P. lights.  
117 — 125 C. P. lights.  
945 — 60 C. P. lights.

#### Recommendation.

I respectfully recommend that an assistant inspector be employed to enable the department to more thoroughly cover all old installations of electrical wiring in the City.

#### Conclusion.

I wish to thank His Honor, the Mayor, the members of the Board of Aldermen and the several departments for the many courtesies received.

Respectfully yours,

WALTER I. FULLER,

*Commissioner of Electric Lines and Lights.*

## REPORT OF SANITARY DEPARTMENT

January 25, 1922.

To the Honorable, the Mayor, and the Board of Aldermen of  
the City of Somerville.

Gentlemen:

I have the honor to submit to you the report of the Sanitary Department for the year 1921.

### Collection of Ashes and Paper.

	Ashes (Cubic Yards)	Paper (Cubic Yards)
January . . . . .	16,255	3,280
February . . . . .	12,032	2,960
March . . . . .	14,300	3,240
April . . . . .	10,737	3,040
May . . . . .	9,005	3,300
June . . . . .	6,240	3,775
July . . . . .	6,045	3,800
August . . . . .	7,115	4,150
September . . . . .	7,025	3,920
October . . . . .	7,890	4,000
November . . . . .	8,215	3,640
December . . . . .	8,485	3,590
Totals . . . . .	113,344	42,695

During the year the Sanitary Department paid to the Highway Department \$6,601.59 for the use of teams. Collections of garbage amounted to about 2,100 cords, all of which was disposed of at the department yard.

### Departmental Revenue.

Sale of garbage . . . . .	\$9,960 00
---------------------------	------------

The equipment and its valuation follows:

Horses . . . . .	\$9,000 00
Vehicles . . . . .	13,675 00
Harnesses, blankets, etc. . . . .	2,665 00
Stable equipment, etc. . . . .	300 00
Fittings in blacksmith shop . . . . .	75 00
	\$25,715 00

The incinerator plant was damaged by fire in January. It has been restored and the paper and combustible materials are being disposed of at the incinerator building. Ashes are collected principally by automobile trucks, deemed necessary as there are no nearby dumps. There is no public dump within the city limits and those now used by this department are located in the city of Medford and are subject to the rules and regulations of the Medford Board of Health.

Respectfully submitted,

EDGAR T. MAYHEW,

*Supt. of Sanitary Department.*

## REPORT OF THE LICENSE COMMISSION.

---

To His Honor the Mayor,

Dear Sir:—

The License Commission respectfully begs leave to submit to you and the people of our city the following report of its engagements and activities during the year 1921. The commission entered upon the second year of its activities with a wider knowledge of conditions, gained through personal inspections of the licensed locations.

The practise of transferring licenses without a fee was discontinued this year and the fee for second hand automobile licenses increased so that the revenue from licenses granted by this commission was more than doubled.

Applications from Common Victuallers, Lord's Day, Lodging House, Inn Holders, Druggist and Automobile Dealers Licenses were received and acted upon by the Commission as herein set forth.

### Common Victuallers.

87 Applications Received.  
 85 Licenses Granted.  
 2 Applications Rejected.  
     Licenses Transferred.  
 16 Licenses Revoked.

### Lord's Day.

203 Applications Received.  
 190 Licenses Granted.  
 13 Applications Rejected.  
     Licenses Transferred.  
 27 Licenses Revoked.

### Lodging House.

42 Applications Received.  
 40 Licenses Granted.  
 2 Applications Rejected.  
     Licenses Transferred.  
 2 Licenses Revoked.

### Inn Holders.

2 Applications Received.  
 2 Applications Granted.  
     Applications Rejected.  
     Licenses Transferred.  
     Licenses Revoked.

**Automobile Dealers' Licenses.**

39 Applications Received.  
 39 Licenses Granted.  
 Applications Rejected.  
 Applications Transferred.  
 Licenses Revoked.

**Third Class Liquor Licenses.**

19 Licenses Granted.

The following is a financial statement of the receipts and expenditures of the Commission for the year 1921.

**Receipts.**

Appropriation from City Government . . . . .	\$525 00
Fees from Licenses Issued . . . . .	2,198 25
	<hr/>
Gross Receipts . . . . .	\$2,723 25

**Expenditures.**

Salaries of Assistants . . . . .	\$400 00
Supplies and Postage . . . . .	124 54
	<hr/>
	\$524 54
	<hr/>
Balance . . . . .	\$2,198 71

**Net Revenue.**

Fees Received . . . . .	\$2,198 25
Appropriations used . . . . .	\$524 54
Balance of Appropriation Returned . . . . .	46
	<hr/>
Net Revenue . . . . .	\$1,673 25

Respectfully submitted,

EUGENE M. CARMAN, *Chairman*,  
 WILLIAM H. SMITH,  
 WILLIAM J. SHANAHAN.

## SOMERVILLE WATER WORKS.

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### SOMERVILLE, MIDDLESEX CO., MASSACHUSETTS.

Settled, when part of Charlestown, 1630.  
 (Home of Colonial Governor John Winthrop).  
 Incorporated a town, 1842.  
 Established a city, 1872.

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Location: Somerville City Hall (near centre of the city) is  $2\frac{3}{4}$  miles northerly from State House, in Boston.  
 Greatest extent of the City north and south about 4.2 miles.  
 Greatest extent of the City east and west about 2.1 miles.  
 Elevation Highland avenue at City Hall 105 feet above mean low water.  
 Lowest building elevation in the city 13 feet.  
 Highest building elevation in the city 145 feet.  
 Area of city, including land and water, about 4.22 square miles.  
 Land, 2,461.50 acres; water and marsh, 238.50 acres.  
 Population, 1920 census, 93,033.  
 Present population, estimated, 95,000.  
 Entire population on line of pipe and supplied with water.

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Water works owned by City of Somerville.  
 Construction commenced in 1868.

Source of supply: Metropolitan system, taking water of the Nashua river at Clinton, Mass.

Range of pressure on street mains:  
 Low service 35 to 65 pounds.  
 High service 45 to 100 pounds.

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**Mayor.**

HON. CHARLES W. ELDRIDGE

---

**Water Commissioner.**

FRANK E. MERRILL

---

**Office of the Water Department.**

Room 10, City Hall.

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**Department Buildings and Yard.**

Cedar street, near Broadway.



ADMINISTRATION OF WATER WORKS  
VESTED AS FOLLOWS:

---

1868 — 1871

SOMERVILLE MYSTIC WATER COMMITTEE (5)  
Acts 1868; Chap. 202

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1872 — 1890

SOMERVILLE MYSTIC WATER BOARD (5)  
Acts 1871; Chap. 182

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1891 — 1897

SOMERVILLE MYSTIC WATER BOARD (3)  
Acts 1890; Chap. 218

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1898 — 1899

BOARD OF WATER COMMISSIONERS (3)  
Acts 1898; Chap. 33

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1900 —

WATER COMMISSIONER (1)  
Acts 1899; Chap. 240

## REPORT OF THE WATER COMMISSIONER.

OFFICE OF THE WATER COMMISSIONER,  
January, 1922.

To His Honor, the Mayor, and the Board of Aldermen:—

I present herewith my report for the year ending December 31, 1921, this being the forty-eighth annual report of the water department and my twenty-second as water commissioner:

## Revenue and Expenditures.

Water bills have been issued as follows:—

"Annual" water charges, amounting to . . . . .		\$38,716 75	
"Additional" water charges, amounting to . . . . .		1,147 10	
"Metered" water charges, amounting to . . . . .		218,857 65	
			<u>258,721 50</u>
Abatements and refunds on above charges:			
Changes from "Annual" to "Meter" basis,	\$4,382 53		
Uncollectible . . . . .	307 88		
Other reasons . . . . .	231 29		
Carried forward for collection . . . . .	70 69		
			<u>4,992 39</u>
Income from sale of water . . . . .			\$253,729 11
Receipts; water service assessments . . . . .	\$5,408 19		
Receipts; labor and materials sold:—			
Misc. accounts charged . . . . .	\$6,838 40		
Abatements:			
Uncollectible . . . . .	\$410 31		
Other reasons . . . . .	16 23		
Carried forward . . . . .	38 79		
		465 33	
			<u>6,373 07</u>
			11,781 26
Total income of water works . . . . .			<u>\$265,510 37</u>

This amount was used as follows:—

For water works purposes:—

## Under Control of the Water Commissioner.

Water Works Maintenance . . . . .	\$60,987 29	
Water Works extension . . . . .	15,958 54	
Miscellaneous accounts . . . . .	6,373 07	
		<u>\$83,318 90</u>

Not Under Control of the Water Commissioner.

Metropolitan water works assessment . . . . .	\$133,989 84	
Maintenance water works buildings . . . . .	2,442 93	
	<hr/>	\$136,432 77

For other municipal purposes:—

Not Under Control of the Water Commissioner.

Surplus . . . . .		\$45,758 70
		<hr/>
		\$265,510 37

In addition to the appropriations from water income to other municipal purposes enumerated above, water has been furnished without charge to all the city departments that have required its use and it is paid for out of the income from sale of water.

Department Receipts and Disbursements.

WATER MAINTENANCE ACCOUNT.

Appropriations made by Board of Aldermen . . . . .		\$68,875 00
Credit on refund . . . . .	\$ 75	
Credit on materials exchanged . . . . .	440 00	
	<hr/>	440 75
Department accounts; receipts . . . . .		550 63
Water works extension account; receipts . . . . .		12,294 13
Amount expended for labor and materials for operation, maintenance, and renewal of the water works . . . . .	\$60,987 29	
Amount expended for materials used in extension of the water works . . . . .	12,294 13	
Miscellaneous accounts . . . . .	6,373 07	
Labor and materials furnished municipal departments . . . . .	550 63	
Refund and exchange; Contra . . . . .	440 75	
Transfer by Board of Aldermen to other departments . . . . .	625 00	
Balance: Unexpended . . . . .	889 64	
	<hr/>	<hr/>
	\$82,160 51	\$82,160 51

WATER WORKS EXTENSION ACCOUNT.

Appropriations made by Board of Aldermen . . . . .		\$16,100 00
Amount expended for labor and materials used in extension of the water works . . . . .	\$15,958 54	
Balance: unexpended . . . . .	141 46	
	<hr/>	<hr/>
	\$16,100 00	\$16,100 00

**Cost of Water Works.**

The total cost of water works on December 31, 1920, as represented by the expenditures from appropriations for water works extension was . . . . .	\$1,079,248 19
Expended during the year 1921, on extension account . . . . .	15,958 54
	<hr/>
Total expenditures, December 31, 1921 . . . . .	\$1,095,206 73

**Water Works Income from 1898 and its Distribution.**

The water income and its distribution from 1898 to 1921, inclusive, is shown in the following table:—

Total water income . . . . .	\$5,665,709 55
Distribution:—	

**Water Works Account.**

Water Works Construction, Renewal, Maintenance, Operation and Miscellaneous Accounts . . . . .	\$1,434,373 07	
Water bonds . . . . .	274,000 00	
Interest . . . . .	86,575 00	
Metropolitan Water Assessments . . . . .	2,277,789 74	
Maintenance Water Works buildings . . . . .	8,292 26	
	<hr/>	\$4,081,030 07

**Other Municipal Accounts.**

Various municipal departments through specific appropriations and general revenue account . . . . .	\$1,584,679 48
	<hr/>
	\$5,665,709 55

**Water Distribution System — Construction.****STREET MAINS.**

Approximate number of feet of street mains in the city, January 1, 1921, (including hydrant branches and blow-offs) . . . . .	541,893
Feet of street mains laid in 1921 . . . . .	2,520
Feet of hydrant branches laid in 1921 . . . . .	56
Feet of blow-off branches laid in 1921 . . . . .	0
	<hr/>
Total feet of pipe laid . . . . .	2,576
Feet of pipe removed or replaced . . . . .	1,689
	<hr/>
Net increase in feet of pipe . . . . .	887
	<hr/>
Total approximate feet of pipe in the city . . . . .	542,780
Total pipe mileage, approximately . . . . .	102.80

The sizes and lengths of pipe laid and discontinued are as follows:—

Size	Feet Laid	Feet Discontinued	Size	Feet Laid	Feet Discontinued
¾"	0	96	6"	354	1030
1"	81	33	8"	623	0
2"	285	483	10"	242	0
4"	0	47	12"	991	0

The pipes constructed and replaced during the year are as follows:—

	Size of Pipe	Feet Laid	Feet Discontinued	Size Discontinued
Constructed: ---				
Broadway . . . . .	8"	106		
Cady Ave. . . . .	8"	136		
Corinthian Road . . . . .	8"	249		
Jaques St. . . . .	{ 10"	31		
	{ 6"	7		
Miller St. . . . .	6"	33		
Sterling St. . . . .	8"	132		
Waverley St. . . . .	6"	22		
Woods Ave. . . . .	10"	211		
Replaced: ---				
Eustis St. . . . .	6"	55	55	2"
Forest St. . . . .	6"	54	54	2"
Giles Park . . . . .	2"	110	110	2"
Greenwood Terrace . . . . .	6"	35	35	2"
Harvard Place . . . . .	2"	175	175	2"
Lamson Court . . . . .	1"	33	33	1"
Linwood St. . . . .	{ 12"	511	511	6"
	{ 12"	480	480	6"
Linwood Terrace . . . . .	1"	48	96	¾"
London St. . . . .	6"	38	38	4"
Prentiss St. . . . .	6"	54	54	2"
Hydrant branches, blow-off pipes and water-post connections . . . . .		56	48	
		<u>2576</u>	<u>1689</u>	

Hydrants, Gates Etc.

Number of fire hydrants in city January 1, 1921 . . . . .		1,179
Number set during year . . . . .	12	
Number removed during the year . . . . .	9	
Net increase in number of hydrants . . . . .		<u>3</u>
Total number of public fire hydrants . . . . .		1,182

Number of private fire hydrants, January 1, 1921 . . . . .		64	
Number set by private companies during the year . . . . .		0	
		<hr/>	
Total number of private fire hydrants receiving their supply from the city mains . . . . .			64
Number of gates in city, January 1, 1921 . . . . .		1,880	
Number set during the year for streets . . . . .	5		
Number of section gates set . . . . .	3		
Number set on hydrant branches . . . . .	15		
Number set on blow-off branches . . . . .	0		
Number set on car-sprinkler connections . . . . .	0		
		<hr/>	23
Number of street gates removed . . . . .	3		
Number of waterpost gates removed . . . . .	0		
		<hr/>	3
		<hr/>	
Net increase in number of gates . . . . .		20	
Total number of gates in city . . . . .			1,900
Number of check-valves in city . . . . .			8
Number of blow-offs in city January 1, 1921 . . . . .		185	
Number added during the year . . . . .		0	
		<hr/>	
Total number of blow-offs . . . . .			185
Number of waterposts in city January 1, 1921 . . . . .		72	
Number removed during the year . . . . .		0	
		<hr/>	
Total number of waterposts . . . . .			72
Number of drinking fountains in city . . . . .			8
Number of car-sprinkler connections in city . . . . .			17
		<hr/>	

#### Water Services.

Number of services in city January 1, 1921 (approximately) . . . . .		13,554	
Number laid during the year . . . . .	84		
Number permanently discontinued . . . . .	7		
		<hr/>	
Net increase in services . . . . .		77	
Total number of water services in city . . . . .			13,631
Amount received for services laid in 1921 . . . . .		\$5,408	19
Number feet service pipe in city January 1, 1921 (city and private) approximately . . . . .		467,546	
Number feet laid during the year . . . . .	3,107		
Number feet discontinued . . . . .	208		
		<hr/>	
Increase in feet of service pipe . . . . .		2,899	
Total feet service pipe (city and private) (approximately) . . . . .		470,445	
Total service mileage (approximately) . . . . .		89.1	

Size, number and length of services installed in 1921:

10-5/8"-446'	52-3/4"-1839'	10-1"-488'	5-2"-109'	3-4"-99'	4-6"-126'	
Number of fire services installed during 1921						8
(Included in above)						

Location of Fire Services	No.	Size
Beacon St., No. 10 --- Winchester Mfg. Co. . . . .	1	6"
Broadway --- Clarendon Hill Sta., B. E. Ry. . . . .	1	6"
Central St. --- Central Theatre . . . . .	1	2"
Central St. --- Central Theatre . . . . .	1	4"
Clarendon Ave. --- Teele Sq. Theatre . . . . .	1	4"
Roland St. --- Masury, Young Co. . . . .	1	4"
Somerville Ave., No. 37 --- Rapids Furniture Co. . . . .	1	6"
Vine St., No. 21 --- Conant Bros. Factory . . . . .	1	6"

Water Meters.

Number of water meters in city, January 1, 1921 . . . . .		10,472
Number installed during the year, new . . . . .	723	
Number reset . . . . .	70	
	<hr/>	793
Number removed on account of permanent or temporary discontinuance of water and for substitution of other meters . . . . .	75	
	<hr/>	
Net increase in number of operating meters . . . . .		718
Total number of meters in service . . . . .		11,190
Number of motor registers (included in above) . . . . .		3
Per cent. of all services metered . . . . .		82.11

Operating Meters December 31, 1921.

Size	5/8"	3/4"	1"	1 1/2"	2"	3"	4"	6"	Total
No.	10,764	274	90	18	23	11	6	1	11,187
Motor and elevator registers									3
									<hr/>
									11,190

The meters installed in 1921 were classed as follows:—

Applications of property owners . . . . .	79
New services . . . . .	60
General installation . . . . .	584
Reset . . . . .	70
	<hr/>
Total . . . . .	793

Meters were removed for the following causes:—

Vacancies and temporary non-use of water . . . . .	51
Services permanently discontinued . . . . .	5
Replaced by other meters . . . . .	19
	<hr/>
Total . . . . .	75

Meters installed yearly on old and new services under the State Compulsory Meterage law, which requires complete meterage of city by the year 1928:—

Year	Average installation required on old services	Meters set on old services	Set in excess of requirements	Total excess	Meters set on new services
1908	411	755	344	344	147
1909	411	637	226	570	201
1910	411	501	90	660	169
1911	411	528	117	777	200
1912	411	423	12	789	236
1913	411	432	21	810	255
1914	411	422	11	821	231
1915	411	439	28	849	217
1916	411	434	23	872	203
1917	411	163	248 (less)*	624	154
1918	411	82	329 (less)*	295	39
1919	411	166	245 (less)*	50	23
1920	411	115	296 (less)*	246†	45
1921	411	663	6	6	60

\* On account of war-time conditions of labor and material.

† Deficiency.

The following table shows the progress of meter installation of Somerville by years and the results therefrom in water consumption:

Year	Popu- lation	Number of Services	Number of Meters	Per Cent Metered	Per Capita Con- sump- tion (Est.)
1897	58,000	9,601	.....	.....	88
1898	59,000	9,806	143	1.5	88
1899	61,000	10,052	226	2.25	88
1900	62,000	10,291	202	2	88
1901	64,000	10,520	224	2	88
1902	66,000	10,710	269	2.5	88
1903	68,000	10,854	647	6	88
1904	69,000	11,059	1,272	11.5	Met. 89
1905	70,000	11,279	2,092	18.5	89
1906	71,000	11,489	2,829	24.5	89
1907	72,000	11,662	3,455	29.5	90
1908	74,000	11,817	4,333	36.5	89
1909	76,000	12,018	5,155	43	84
1910	78,000	12,149	5,817	48	80
1911	79,000	12,357	6,533	53	74
1912	80,000	12,596	7,171	57	79
1913	82,000	12,827	7,856	61	72
1914	85,000	13,034	8,499	65	73
1915	87,000	13,233	9,155	69	67
1916	90,000	13,420	9,763	72.75	69
1917	91,000	13,509	10,028	74.23	73
1918	91,000	13,514	10,116	74.86	80
1919	92,000	13,544	10,322	76.21	69
1920 Census	93,033	13,554	10,472	77.26	77
1921	95,000	13,631	11,190	82.11	73



## Summary of Pipes and Fixtures of the Water System

December 31, 1921.

Feet of main pipe (approximately) . . . . .	542,780
Feet of service pipe (approximately) . . . . .	470,445
Service connections (approximately) . . . . .	13,631
Public fire hydrants . . . . .	1,182
Private fire hydrants . . . . .	64
Gates . . . . .	1,900
Check Valves . . . . .	8
Meters . . . . .	11,190
Motor registers . . . . .	3
Waterposts . . . . .	72
Car-sprinkler connections . . . . .	17
Blow-offs . . . . .	185
Drinking fountains and troughs . . . . .	8

## WATER ASSESSMENTS AND CONSUMPTION.

The annual assessments paid by this city as its proportionate part of the cost and operation of the Metropolitan water works are given below:—

Year	Sinking Fund	Maintenance	Interest	Maturing Bonds	Total
1898.....	No division made				\$14,250 19
1899.....	“	“	“		20,975 58
1900.....	“	“	“		28,689 24
1901.....	\$12,491 73	\$12,033 79	\$32,291 24		56,816 76
1902.....	19,014 85	12,955 64	30,427 40		62,397 89
1903.....	15,748 56	12,763 10	48,776 77		77,288 43
1904.....	16,404 42	15,393 87	54,938 64		86,736 93
1905.....	21,358 11	13,666 71	55,535 91		90,560 73
1906.....	22,345 50	17,412 51	57,402 07		97,160 08
1907.....	25,365 30	18,880 01	62,089 30		106,334 61
1908.....	24,865 73	15,221 12	68,604 23		108,691 08
1909.....	24,812 23	21,220 56	66,540 41		112,573 20
1910.....	25,018 52	18,212 28	66,825 45		110,056 25
1911.....	25,424 55	19,573 82	69,849 26	\$246 66	115,094 29
1912.....	24,469 82	16,111 70	68,205 16	445 46	109,232 14
1913.....	24,930 94	20,691 19	70,206 83	491 92	116,320 88
1914.....	14,190 98	22,488 71	73,138 81	180 63	109,999 13
1915.....	14,164 65	21,376 07	74,111 12	1,129 50	110,781 34
1916.....	13,249 71	21,643 98	74,058 98	1,515 62	110,468 29
1917.....	13,364 71	28,110 19	75,117 17	1,833 60	118,425 67
1918.....	14,193 89	29,185 04	79,975 44	2,004 18	125,358 55
1919.....	13,765 81	33,723 64	78,335 58	2,257 87	128,082 90
1920.....	12,559 45	37,814 68	74,903 80	2,227 81	127,505 74
1921.....	11,956 69	43,942 28	75,848 98	2,241 89	133,989 84
					\$2,277,789 74

There has been credited to the city by the commonwealth as its proportion of the amounts received from entrance fees, water supplied outside the district, and water furnished to water companies the sum of \$9,056.10.

The daily consumption of water in Somerville, as recorded by the Venturi meters, operated by the Metropolitan water works, is shown below by months for the year 1921:—

Month	Gallons per day	Gallons per capita	Month	Gallons per day	Gallons per capita
January .....	7,272,500	77	July .....	6,999,800	73
February ....	6,881,800	73	August .....	6,971,300	73
March .....	6,625,400	70	September ..	7,141,200	75
April .....	6,390,700	67	October .....	6,847,600	72
May .....	6,590,000	69	November .	6,746,600	70
June .....	7,507,700	79	December ...	7,057,700	73

The consumption for the year was:—

Low-service system .....	1,968,524,000	gallons
High-service system .....	557,049,000	gallons
Total consumption .....	2,525,573,000	gallons
Average daily consumption .....	6,919,400	gallons
Average daily consumption, per capita, for Somerville .....	73	gallons
Average daily consumption, per capita, for Metropolitan district .....	95	gallons

The following table shows the daily per capita consumption of water in the cities and town in the Metropolitan Water District for the year 1921, as registered by the Metropolitan meters.

City or Town	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Arlington .....	51	51	49	50	54	86	56	63	68	58	49	52	57
Belmont .....	51	52	53	54	59	98	60	63	69	55	52	50	60
Boston .....	126	119	113	106	109	112	110	109	112	109	105	111	112
Chelsea .....	71	69	68	65	67	72	70	71	74	71	68	75	70
Everett .....	91	87	87	82	83	89	82	86	86	86	81	85	86
Lexington .....	59	59	63	62	65	90	68	74	74	69	64	63	68
Malden .....	52	47	46	46	47	54	50	49	51	51	48	48	49
Medford .....	43	40	41	42	45	51	45	49	46	44	47	47	45
Melrose .....	55	51	51	54	57	72	60	59	62	56	55	57	57
Milton .....	42	42	42	42	42	49	39	37	42	45	43	41	42
Nahant .....	87	95	70	78	111	270	209	230	218	103	57	56	132
Quincy .....	86	85	83	82	85	95	90	90	89	86	81	85	86
Revere .....	61	61	55	56	60	74	73	79	74	65	57	61	65
Somerville .....	77	73	70	67	69	79	73	73	75	72	70	73	73
Stoneham .....	85	83	78	78	74	84	79	81	77	75	65	60	76
Swampscott .....	70	68	67	66	80	127	105	114	108	92	78	59	86
Watertown .....	68	64	67	76	83	82	73	84	80	71	71	75	75
Winthrop .....	51	49	49	49	50	64	65	64	58	51	50	50	54
Met. Dist. ....	103	98	94	90	92	99	94	95	97	93	89	94	95

The district, in order of per capita consumption, beginning with the lowest, stands as follows for the year 1921:—

City of Town	Gallons		Per. Cent. Services Metered
	Total per Day	Per Capita per Day	
Milton . . . . .	402,500	42	100
Medford . . . . .	1,853,900	45	100
Malden . . . . .	2,468,700	49	97
Winthrop . . . . .	873,000	54	99
Melrose . . . . .	1,064,700	57	99
Arlington . . . . .	1,100,300	57	100
Belmont . . . . .	678,300	60	100
Revere . . . . .	1,958,600	65	80
Lexington . . . . .	441,700	68	99
Chelsea . . . . .	3,101,300	70	99
Somerville . . . . .	6,919,400	73	82
Watertown . . . . .	1,624,400	75	100
Stoneham . . . . .	610,400	76	79
Everett . . . . .	3,530,600	86	71
Quincy . . . . .	4,269,500	86	91
Swampscott . . . . .	718,800	86	100
Boston . . . . .	85,609,200	112	62
Nahant . . . . .	182,100	132	75
Total District . . . . .	117,407,400	95	75

#### Construction — Maintenance — Operation.

Building operations were quiet during the first half of the year; toward the close, however, renewed activity manifested itself and many new houses were erected, calling for service installation and, in some cases, short extensions of the street mains.

Further portions of Linwood street were paved during the year and 12" water pipe was laid in advance of the pavers in place of the old 6" pipe from Congress Place to a connection with Fitchburg street, and from a point near Dix Place northerly for about 480 feet. In London street, at the same time, 38 feet of old 4" pipe was replaced with 6" pipe and the small pipe in Lamson Court was replaced with new; also a part of the old supply to Linwood Terrace was renewed.

In Harvard Place the old 2" galvanized pipe was replaced with the same size of lead-lined pipe, and in Giles Park 110 feet of old pipe was similarly treated.

Construction work was carried on in Broadway, north side, from Pennsylvania Avenue easterly; in Cady Avenue from point near Simpson Avenue westerly to Corinthian Road; in Corinthian Road from point near Broadway, southerly; in Jaques street to connect with Bond street main; in Miller

street, a connection with Beacon street; in Sterling street, to supply new houses being erected; in Waverley street to provide a connection for main in Roland street, and in Woods Avenue in anticipation of building operations.

Twenty additional gates were installed in street mains and hydrant branches; twelve fire hydrants were set and nine were removed.

A large increase in service installation developed in the later part of the year and altogether 84 services were laid and 7 were discontinued.

#### Class of Premises Covered by Service Installation.

Apartment buildings . . . . .	1
Barrel yard . . . . .	1
Bottling business . . . . .	1
Car station; fire pipe . . . . .	1
Factory . . . . .	1
Factory; fire pipe . . . . .	2
Factory; fire and service combination . . . . .	1
Garages . . . . .	8
Gas filling station . . . . .	1
Junk yard . . . . .	1
Laundry . . . . .	1
Lunch cart . . . . .	1
Milk station . . . . .	1
Residences . . . . .	54
Stores . . . . .	2
Storage warehouse . . . . .	1
Storage warehouse; fire pipe . . . . .	1
Tenements and stores; blocks . . . . .	2
Theatre; fire pipes . . . . .	2
Theatre; fire and service combination . . . . .	1

The low state of construction and reconstruction work afforded an opportunity to catch up with our meter installation requirements and we were able to wipe out our deficiency of the previous year and show an excess installation of six meters; a total of 723 meters having been set during the year on old and new services. At this time 82% of the services in the city are metered.

Water income for the year was \$265,510.37; an increase of \$2,844.03 over the previous year. All bills owed by the department were paid at the close of the year and the appropriation accounts showed an unexpended balance of \$1,031.10.

The old high-service pump and boiler have finally been disposed of and removed from the department buildings but much remains yet to be done by the building department before we can realize any great benefit from these changes. A memorandum of our needs will be submitted for your considera-

tion in the next budget. A new steam-heating plant has been installed and so far has given ample warmth to the buildings.

A great improvement has been made in our motor equipment by the favorable purchase of two new Kissel one-ton trucks to replace old trucks which had become practically unfit for further use. With the early purchase of one more truck our teaming outfit will be good for another year.

My thanks are expressed to the retiring mayor, Hon. Charles W. Eldridge, for many courtesies shown me during his term of office, and to all officials and employees of the city who have co-operated with me in carrying on the various branches of our department work.

Respectfully submitted,

FRANK E. MERRILL,

*Water Commissioner.*











## SUMMARY OF STATISTICS.

FOR THE YEAR ENDING DECEMBER 31, 1921.

In form recommended by the New England Water Works Association.

SOMERVILLE WATER WORKS  
SOMERVILLE, MIDDLESEX COUNTY, MASS.

## General Statistics.

Population, census 1920, 93,033; present, estimated 95,000.

Date of construction: Commenced in 1868.

By whom owned: City of Somerville.

Source of supply: Metropolitan water system.

Mode of supply: Water is delivered into the city's mains, under both high and low pressure, by the Metropolitan Water Works.

## Statistics of Consumption of Water.

Census population, 1920, 93,033.

Population on lines of pipe, Dec. 31, 1921, 95,000.

Population supplied, Dec. 31, 1921, 95,000.

Total consumption for the year, 2,525,573,000 gallons.

Average daily consumption, 6,919,400 gallons.

Gallons per day to each inhabitant, 73.

## Statistics Relating to Distribution System, 1921.

## MAINS

Kind of pipe, cast iron.

Sizes, from 4-inch and under to 20-inch.

Laid 2,576 feet; discontinued 1,689 feet; net extension, 887 feet.

Total now in use, 102.80 miles.

Number of hydrants added during year (public, 3; private, 0), 3.

Number of hydrants (public and private) now in use, 1,246.

Number of stop gates added during year, 20.

Number of stop gates now in use, 1,900.

Number of blow-offs, 185.

Range of pressure on mains, 35 pounds to 100 pounds.

## SERVICES

Kind of pipe: Lead; lead-lined wrought iron; cement-lined wrought iron; cast iron.

Sizes, one-half to eight inches.

Extended 3,107 feet; discontinued 208 feet.

Total now in use 89.1 miles

Number of service taps added, 84; discontinued, 7; increase, 77.

Number now in use, 13,631.

Number of meters added, 793; meters and motor registers discontinued, 75; net increase, 718.

Number now in use, 11,190.

Percentage of services metered, 82.11.

Percentage of water receipts from metered services, 86.

Number of motors and elevator registers added, 0; removed, 0.

Number now in use, 3 (included in number of meters).

FINANCIAL STATISTICS.

REVENUE.

From Water Rates:—	
Fixtures rates . . . . .	\$35,020 13
Meter rates . . . . .	218,708 98
	<hr/>
Total from consumers . . . . .	\$253,729 11
From other sources:—	
Water service assessments . . . . .	5,408 19
Labor and materials . . . . .	6,373 07

EXPENDITURES.

Water Works Maintenance:—	
Operation (Management,	
repairs and renew-	
als) . . . . .	\$60,987 29
Special:—	
Miscellaneous accounts . . . . .	6,373 07
	<hr/>
Total . . . . .	\$67,360 36
Water Works Buildings . . . . .	2,442 93
Water Works Construction:—	
Mains . . . . .	\$4,207 04
Services . . . . .	4,898 62
Meters . . . . .	6,852 88
	<hr/>
Total construction . . . . .	\$15,958 54
Metropolitan water assessment . . . . .	133,989 84
Balance . . . . .	45,758 70
	<hr/>
Total . . . . .	\$265,510 37

Disposition of balance: applied to municipal purposes.

Cost of works to date . . . . .	\$1,095,206 73
Bonded debt at date . . . . .	None

## REPORT OF THE SEALER OF WEIGHTS AND MEASURES.

OFFICE OF SEALER OF WEIGHTS AND MEASURES,  
City Hall Annex, Somerville, January 1, 1921.

To His Honor, the Mayor, and the Board of Aldermen:—

The following report of the sealer of weights and measures for the year 1921 is respectfully submitted:—

### Work of Weights and Measures Department for 1921.

Scales	Adjusted	Sealed	Non-sealed	Con demned
Platform over 5000 capacity . . . . .	—	43	—	—
Platform under 5000 capacity . . . . .	7	339	6	—
Counter . . . . .	9	510	7	—
Spring . . . . .	—	667	15	—
Computing . . . . .	1	268	2	—
Slot Personal . . . . .	—	62	—	—
Prescription . . . . .	—	39	—	—
Beam . . . . .	—	19	—	—
Track . . . . .	—	23	—	—
Weights,—				
Avoirdupois . . . . .	14	3085	—	—
Apothecary . . . . .	—	579	—	7
Metric . . . . .	—	20	—	—
Capacity Measures,—				
Dry . . . . .	—	34	—	1
Liquid . . . . .	—	783	—	4
Gasolene pumps . . . . .	—	55	1	—
Oil pumps . . . . .	4	36	—	—
Molasses pumps . . . . .	—	27	—	—
Ice cream cans . . . . .	—	2356	—	34
Yard sticks . . . . .	—	175	—	2
Baskets . . . . .	—	25	—	—
Leather measuring machine . . . . .	—	1	—	—
Totals . . . . .	35	9146	31	48

Fees collected and paid to City Treasurer, \$501.42.

Amount paid City Treasurer for Pedlers' Licenses, \$966.00.

It is impossible to show by these figures the amount of work performed in testing and sealing the above weighing and measuring devices.

## Trial Weighing in Stores.

Commodity	Number		Incorrect	
	Tested	Correct	Under	Over
Coal in paper bags . . . . .	27	10	8	9
Coal in wagons . . . . .	2	—	2	—
Flour in paper bags . . . . .	10	2	4	4
Butter . . . . .	32	26	6	—
Dry commodities . . . . .	112	106	6	—
Bread . . . . .	13	2	5	6
	<hr/>	<hr/>	<hr/>	<hr/>
Totals . . . . .	196	146	31	19

B. A. ABBOTT,

*Sealer of Weights and Measures.*

## REPORT OF THE LAW DEPARTMENT.

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To the Honorable, the Mayor and the Board of Aldermen of the City of Somerville:

The annual report of the law department for the year ending December 31, 1921, is as follows:

A hearing was held before the district court of Somerville under chapter 31 of the General Laws on an appeal by a member of the fire department from his removal by the mayor and the board of aldermen. The hearing lasted several days. The removal was sustained by the court.

Two actions for personal injuries claimed to have been caused by an automobile in the water department were tried before a jury in the Middlesex superior court and verdicts were given for \$214 and \$9,000. A motion to set aside the larger verdict was filed in behalf of the city and is now pending.

Two actions for personal injuries claimed to be due to a defect in a public way were tried before a jury in the Middlesex superior court and were disposed of without expense to the city.

In an action brought by a member of the fire department to test the validity of a regulation under the two-platoon law there was a hearing in the superior court and later the questions of law involved were argued before the full bench of the supreme court. No decision has as yet been made.

With the inspector of milk I acted for the prosecution in the district court of Somerville of persons charged with violation of the milk laws.

Various claims for injuries due to defects in public ways were settled for sums ranging from \$25. to \$1500., the larger settlements having been authorized by orders passed by the board of aldermen.

I took part in hearings before committees of the legislature on petitions relative to the widening of Bridge street in Cambridge. No legislation was passed on the subject. It seems to me that the matter could best be adjusted by some agreement between the city governments of the two cities and that the city of Somerville should not be called upon to make any direct contribution to the cost of such widening.

A hearing was held before the commissioners of public utilities on a petition of the mayor in regard to the rate of charges by the Cambridge Gas Light Company for gas furnished through twenty-five cent meters.

At the request of the mayor I made an examination of the laws relating to the Boston Elevated Railway Company and the West End Street Railway Company in order to determine the power of the city government to prevent the street railway company from causing its cars to remain standing at various places in the public streets as at a terminal. As a result an ordinance was drawn and was passed by the mayor and the board of aldermen. The street railway company, while denying the validity of the ordinance, filed a petition with the legislature for the purpose of taking away the power, if any, of the city government to pass such an ordinance. The petition was opposed at a hearing before a legislative committee and was dismissed by the legislature. A partial adjustment of the matter was made by the city government and the representatives of the street railway company.

A claim in favor of the city against the estate of a person who had been aided by the poor department was collected through the Orphans court, Cumberland, Md., the sum received being \$400.

Very respectfully,

FRANK W. KAAN,

*City Solicitor.*

## REPORT OF CHIEF ENGINEER OF FIRE DEPARTMENT.

Somerville, Mass., January 30, 1922.

To the Honorable, the Mayor, and the Board of Aldermen,

Gentlemen, — Herewith I have the honor of submitting, for your information, the annual report of the fire department for the year ending December 31, 1921:

### Alarms of Fire.

Number of bell alarms . . . . .	266
Number of still alarms . . . . .	583
Total alarms . . . . .	849
Number in excess of 1920 . . . . .	161
Value of buildings at risk . . . . .	\$878,955 00
Insurance on buildings . . . . .	779,250 00
Damage to buildings . . . . .	154,808 26
Value of contents . . . . .	442,405 00
Insurance on contents . . . . .	402,360 00
Damage to contents . . . . .	48,023 71
Total value at risk . . . . .	1,321,360 00
Total insurance . . . . .	1,181,610 00
Total damage . . . . .	202,831 97
Approximate per capita loss . . . . .	2 18

### List of Probable Causes.

Automobiles . . . . .	5
Bonfires . . . . .	30
Car journal . . . . .	2
Carelessness with matches . . . . .	23
Careless Plumber . . . . .	1
Careless smoker . . . . .	7
Children playing with matches . . . . .	9
Cigars, cigarettes and pipes . . . . .	5
Defective chimney . . . . .	5
Dump fires . . . . .	2
Electric wires . . . . .	9
False alarms . . . . .	36
Filling gasoline tanks . . . . .	4
Firecrackers . . . . .	2
Fire in Boston . . . . .	3
Fire in Cambridge . . . . .	1
Fire in Medford . . . . .	6
Fumigating . . . . .	1
Gasoline leak, automobile . . . . .	3
Gas stove . . . . .	2
Grass fires . . . . .	14
Hot ashes in wooden receptacles . . . . .	5



Incendiary . . . . .	14
Kettle of fat . . . . .	1
Kerosene lamps and stoves . . . . .	2
Lantern exploded . . . . .	1
Leaking gas . . . . .	1
Lightning . . . . .	1
Lime, slacking . . . . .	1
Liquor stills . . . . .	3
Oil heater . . . . .	3
Overheated furnace . . . . .	7
Overheated range . . . . .	4
Salamander . . . . .	1
Smoking in bed . . . . .	2
Smoke mistaken for fire . . . . .	5
Spark from chimney . . . . .	9
Spark from incinerator . . . . .	1
Spark from tarvia truck . . . . .	1
Spontaneous combustion . . . . .	7
Steam pipe, clothing . . . . .	1
Tar barrel . . . . .	1
Thawing water pipes . . . . .	3
Unknown . . . . .	6
Unnecessary . . . . .	14
Vulcanizing . . . . .	2

	Engine 1.	Engine 2.	Engine 4.	Engine 6.	Hose 3.	Hose 5.	Hose 7.	Hose 8.	Ladder 1.	Ladder 2.	Ladder 3.	Totals.
Bell alarms . . . . .	194	138	121	38	136	91	95	75	113	83	57	266
Still alarms . . . . .	58	58	23	116	62	59	59	79	18	8	43	583
Miles traveled . . . . .	477	261	260	150	235	239	219	242	110	158	118	2,469
Feet, 2½ in. hose . . . . .	15,800	26,950	7,450	28,150	8,350	7,650	8,300	12,850				
Feet of chemical . . . . .	10,500		5,000	5,750	10,500	14,250		6,250			4,200	56,450
Feet of ladders . . . . .			50	20		220	19	148	1,460	1,495	1,431	4,843
Extinguishers . . . . .	19	8	5	14	5		13	14	21	6	6	111
Gals. chemical . . . . .	2,150		615	962	925	2,385	800	817			729	9,383
Times at other sta. . . . .				2		1		3				6
Out of town . . . . .	13	12		19	10	1		34	2		1	92
Rubber covers used . . . . .						1	2			4	3	9

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*In Memoriam*

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CHARLES H. TIMSON

Lieutenant

Appointed April 1, 1882

Died March 5, 1921

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RAYMOND W. GAMMON

Permanent

Appointment February 2, 1920

Died September 3, 1921

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### Manual Force.

On February 1st the call force was discontinued, two being advanced to the permanent force, one resigned and two being placed on the pension roll; of the permanent force, one was retired on a pension, two died; three men were added from the eligible list of the Civil Service and one was reinstated. The membership of the department now consists of one hundred and thirteen (113) permanent men classified as follows,—

- 1 Chief Engineer.
- 1 Deputy Chief.
- 2 District Chiefs.
- 6 Captains.
- 1 Master Mechanic.
- 11 Lieutenants.
- 3 Enginemen.
- 88 Permanent men.

### Apparatus.

- 1 Second size, horse drawn, steam fire engine.
- 1 Horse drawn, combination chemical and hose wagon.
- 1 Tractor drawn, second size steam fire engine.
- 1 Motor driven, 900 gallon pumping engine and hose wagon.
- 1 Motor driven, 750 gallon pumping engine and chemical,
- 4 Motor driven, combination chemical and hose wagons,
- 1 Motor driven, combination ladder truck and chemical,
- 2 Motor driven, ladder trucks,
- 1 Motor driven, supply and wrecking car.
- 1 Automobile, Chief's car,
- 1 Automobile, deputy chief's car,
- 1 Automobile, district chief's car,
- 1 Automobile, master mechanic's car,
- 2 Horse drawn, ladder trucks, in reserve,
- 2 Horse drawn, supply wagons, in reserve,
- 1 Horse drawn, combination chemical and hose wagon, in reserve.

### Horses.

There are but six horses left in the department, thirteen have been disposed of during the year owing to the motorization of the apparatus, five were transferred to the highway department and two to the sanitary division. The six horses attached to Station No. Six, having become too old for heavy service, were given to persons that would give them good homes and light farm work.

### Hose.

The amount of serviceable hose is but 8,300 feet of two and one-half inch and 1,950 feet of three-quarter inch chemical. There has been but 1,000 feet of new two and one-half inch hose purchased whereas there has been 1,550 feet condemned.

There should be at least 12,000 feet of hose to be on the safe side, and as much as possible should be purchased, this year, to arrive at that amount.

#### Brief Resume.

For the first time, as far as the department records show, since Somerville became a city, a month, September, records no loss by fire. The burning of the Y. M. C. A. building practically doubled the fire loss for the year, the magnitude of this fire was due to the necessity of using the entire fire-fighting force to aid in rescuing the inmates on the two upper floors of the building, even then a fatality occurred in the death of Thomas A. Cargill, losing his life by being cut off in the corridor, on the upper floor, in his apparent effort to escape by the stairway.

The following table gives the loss by months,—

January	.	.	.	.	.	.	\$23,727	97	
February	.	.	.	.	.	.	2,603	40	
March	.	.	.	.	.	.	12,067	16	
April	.	.	.	.	.	.	6,567	01	
May	.	.	.	.	.	.	3,677	68	
June	.	.	.	.	.	.	8,740	00	
July	.	.	.	.	.	.	20,026	00	
August	.	.	.	.	.	.	168	60	
September	.	.	.	.	.	.	.....		
October	.	.	.	.	.	.	9,368	81	
November	.	.	.	.	.	.	100,000	40	
December	.	.	.	.	.	.	15,884	94	
								\$202,831	97

There have been twenty-eight fires with an insurance loss in excess of \$1,000. as follows, —

January 5, 1:06 A. M. Box 226, 6 Beacon Street, Public garage, owned by Eugene P. Gormeley, occupied by William McRea; damage to building \$100, to contents \$1,035.17. Probable cause, careless smoker.

January 6, 10:34 P. M. Box 237, 23 Elm Place, dwelling owned by the Aaron Hook estate, occupants Arthur Mercer and Charles Towle; damage to building \$1,714, to contents \$250. Cause, careless smoker.

January 12, 9:19 P. M. Box 447, 66 Chandler Street, garage owned and occupied by George V. Mead, damage to building \$800, to contents, automobiles, \$61,461.42. Cause, spontaneous combustion, painters' rags.

January 16, 12:34 A. M. Box 24, a second alarm was sounded for this fire, 62 Webster Avenue, coal pocket owned

and occupied by J. P. O'Neil; damage to building and contents, \$12,438.29. Cause unknown.

January 24, 9:07 P. M. Box 37, 536 - 538 Medford Street, stores and dwelling owned by J. M. Isenberg, occupants Joseph Dender and Samuel Davidson; damage to building, \$1,395.00, to contents \$2,055. Incendiary.

March 3, 10:48 P. M. Box 431, 302 - 310 Highland Avenue, block of stores owned by Paul Vartigian, occupants Palmo Cigarette Co., et. al.; damage to building \$1,221, to contents \$2,871. Cause unknown.

March 10, 11:29 A. M. Box 217, 12 - 14 Landers Street, Three decker owned by Mrs. N. E. Baker, occupants Theo. Warfield et. al.; damage to building \$1,673, to contents \$267.96. Children playing with matches.

March 11, 9:58 P. M. Box 342, 20 Radcliffe Road, dwelling owned by Mrs. Frank Rapoza, occupied by T. F. Millea; damage to building \$1,500, to contents \$1,000. Overheated oil heater.

March 23, 11:44 A. M. Box 46, 22 Kent Street, factory building owned and occupied by the Eastern Utilization Company, damage to building and contents \$1,947.40. Electric light.

April 2, 12:50 A. M. Box 41, 40 - 40A Cherry Street, 3 decker owned by Charles F. Shourds, occupants Frank Searle et als., damage to building \$1,252.41, to contents \$183.60. Cause, careless smoker.

April 2, 4:36 A. M. Box 435, 76 - 76A Prichard Avenue, dwelling owned by Harold W. Adams, occupants George Hollis and George Anderson, damage to building \$1,208, to contents \$200. Spontaneous combustion.

April 22, 1:13 P. M. Box 337, City Stables, owned by City of Somerville, damage to buildings and wagons \$3,500. Cause, boys setting fires.

May 3, 8:36 P. M. Box 443, Clarendon Building, Davis square, owned by the Parke Snow Corp., occupants Charles H. Rosenthal et als., damage to building \$769, to contents \$2,618.68. Cause, Rubbish in cellar.

June 25, 10:11 A. M. Box 337, Incinerator on Cedar Street, owned by the City of Somerville, occupant, Dominic Di-Stephano, damage to building \$5,000, to contents \$1,025. Cause, spark from incinerator.

June 25, 4:05 P. M. Box 23, Lumber yard on Harding Street, owned and occupied by C. W. H. Moulton Co., damage \$1,864. Cause, Incendiary.

July 10, 6:13 A. M. Box 24, a second alarm was sounded for this fire, storage shed in rear 58 Webster Avenue owned

and occupied by Waldo Bros. and Bond Company, damage \$15,000. Caused by slacking lime.

July 10, 4:20 P. M. Box 48, dwelling and stores owned by E. L. Russell, occupied by Jason Russell et als., damage to building \$870, to contents \$1,755. Cause, carelessness with matches.

July 25, 10:38 A. M. Box 225, Storage building in rear 3 Warren Avenue, owned by W. S. Howe, occupied by the Dainty Maid Company, damage to building \$107, to contents \$1,059. Cause, Spark on roof.

October 1, 5:55 P. M. Box 35, 187 Central Street, dwelling owned and occupied by Herbert F. Baker, damage to building \$2,506.20, to contents \$1,500. Cause, Electric wires.

October 22, 11:16 A. M. Box 214, 9 Westwood Road, dwelling owned and occupied by Charles A. Landers, damage to building \$1,250, to contents \$1,098. Cause, Match dropped on old shingles in cellar.

October 31, 10:17 P. M. Box 233, 27 - 29 Allen Street, dwelling and sheds owned by Mrs. Jane O'Callahan and Michael Devine, damage to buildings \$1,090, to contents \$739. Cause, Incendiary.

November 9, 3:41 A. M. Box 215, a general alarm was sounded for this fire, 101 Highland Avenue, Y. M. C. A. Building, Thomas A. Cargill lost his life at this fire, nineteen persons were rescued; damage to building \$88,317. damage to contents \$8,000. Defective wiring.

November 12, 8:49 P. M. Box 156, Garage owned by John Milne located on Middlesex Avenue, occupied by the Johnson Baking Co., damage to building \$134, to contents, automobiles, \$1,050. Cause, careless smoker.

December 6, 8:12 P. M. Box 48, 239 Holland Street, store owned by V. H. Worcester, occupied as shoe store by H. Rubin, damage to building \$245, to contents \$800. Cause, carelessness with matches.

December 7, 1:17 A. M. Box 435, 693 - 701 Broadway, apartments and stores owned by Hillson Associates, occupants Gus Gardelle et als., damage to building \$2,812, to contents \$2,630.99. Cause, careless smoker.

December 10, 5:15 P. M. Box 74, 22 Billingham Street, dwelling owned and occupied by Mrs. William E. Gilman, damage to building \$1,572, to contents \$80.60. Cause, rats and matches.

December 22, 1:21 P. M. Box 219, 7 - 9 Holts Avenue, dwelling owned and occupied by Michael Courteney and Mrs. A. Carroll, damage to building \$535.25, to contents \$1,000. Cause, carelessness with matches.

• December 23, 8:34 A. M. Box 432, 367 Highland Avenue, office building owned and occupied by the Highland Coal Company, damage to building \$1,492.80, to contents \$1,150. Cause, hot ashes against wooden partition.

*False Alarms and Bonfires* in the street totalled the incredible number of sixty-six, 25% of the total bell alarms for the year. Both of these classes of alarms are unlawful and are punishable by both fine and imprisonment. Every year I have commented upon these criminal offenses and have urged that efforts be put forth to apprehend the responsible ones. Furthermore, the wear and tear upon the apparatus and the endangering, unnecessarily, the lives of the members of the department should not be required. The record of the Chicago Fire Department, of this year, shows the killing of ten firemen in responding to false alarms, our city is not immune from this possibility of manslaughter and every effort should be put forth to minimize this danger.

*Carelessness With Matches and Children Playing With Matches* have caused thirty-two alarms; Everything has been written and said, relative to this class of fires, to educate and warn the public of the need of exercising care and caution in the use of matches and more particularly safeguarding the children from this menace, still the Juggernaut rolls on crushing out the lives of helpless children. A match bill is to be presented to the legislature in 1922 urging the prohibition of the use of any but the scratch on the box match, I urge every public-spirited citizen to call upon his representative in the General Court to vote for this measure.

One of the *Major Causes of Fires* is the thawing of frozen water pipes, this cutting off of the water supply by Nature's shut-off is not uncommon in our community and therefore fires caused by improper means of remedying this inconvenience are all too frequent, either through ignorance or daring. an open flame, either by burning of paper or criminal use of a torch by the plumber, is frequently used, whereas hot water or cloths saturated with hot water are the most effective means and perfectly safe, water pipes are usually concealed, passing up through the flooring, under closet and sinks where dust and webs collect, a most excellent kindling when an open flame is applied.

#### Recommendations.

As mentioned in previous reports, I recommend the replacement of the present Engine No. 4 Station at the corner of Highland Avenue and Grove Street with a new and up-to-date



three door station for the housing of motor apparatus, every other station, in the city, is now fully motorized and this character of equipment is unquestionably most efficient and economical of operation, the continuation of horse-drawn apparatus at this important location should be given serious consideration inasmuch as the apparatus, at this station, covers one of the important commercial centers of the city and promptness in response, and efficiency may, at any time, be of vital importance.

The replacement of Hose No. 7 with an up-to-date double tank combination hose wagon should be given early consideration, this machine, located in the very center of the city, is called upon to do an unusual amount of service and should be one of the best, whereas it is but a single tank wagon with a body having a capacity for but six hundred feet of hose, this equipment, originally installed upon a touring car chassis, has been in continuous service since 1910, being the first piece of motor apparatus purchased, at an expense of but \$4,500. it can no longer fulfill its required service and need, this machine, if replaced, could be tuned up and used for relief work in an emergency.

A new car, for the use of the chief, should be provided, the present one has been in continuous service for eleven years and has now arrived at the condition where it is impracticable for use and safety.

#### In Conclusion.

In concluding my report I wish to state that I fully recognize the support and confidence accorded me, the past year, by His Honor the Mayor and the Board of Aldermen; I wish also to take this opportunity to thank the officers and members of the department for their faithfulness and efficiency.

Respectfully submitted,

SEWALL M. RICH,

*Chief Engineer.*

## REPORT OF THE POLICE DEPARTMENT.

January 31, 1922.

To the Honorable, the Mayor, and Board of Aldermen of the  
City of Somerville:—

Gentlemen;—I respectfully submit the annual report  
of the Somerville police department for the year ending Decem-  
ber 31, 1921.

### Arrests.

Whole number of arrests made . . . . .		2,123
With and without warrants . . . . .	1,651	
On summons and notification . . . . .	472	
	2,123	2,123
Males . . . . .	2,035	
Females . . . . .	88	
	2,123	2,123
Americans . . . . .	1,508	
Foreign Born . . . . .	615	
	2,123	2,123
Residents . . . . .	1,289	
Non-residents . . . . .	834	
	2,123	2,123

### 1. — Crimes and Offenses Against the Person.

Assaults . . . . .		3
Assault on officer . . . . .		1
Assault and battery . . . . .		140
Assault and battery, attempt . . . . .		1
Assault and battery on officers . . . . .		8
Assault with dangerous weapon . . . . .		1
Assault with intent to murder . . . . .		7
Assault with intent to rob . . . . .		1
Manslaughter . . . . .		10
Rape . . . . .		3
Robbery . . . . .		4
Threats . . . . .		11
		111

## 2. — Crimes and Offenses Against Property.

Breaking and entering . . . . .	70
Breaking and entering, attempt . . . . .	1
Breaking and entering railroad cars . . . . .	8
Breaking and entering railroad car, attempt . . . . .	4
Breaking glass . . . . .	1
Concealment of leased property . . . . .	2
Destroying electric lamps . . . . .	12
Embezzlement . . . . .	1
Fraudulent check . . . . .	1
Fraudulent conveyance of property . . . . .	1
Injury to personal property . . . . .	2
Larceny . . . . .	144
Larceny, attempts . . . . .	2
Larceny from person . . . . .	4
Larceny in railroad car . . . . .	1
Receiving stolen goods . . . . .	5
Trespass . . . . .	70
Unlawfully using registered cans . . . . .	8

337

## 3. — Crimes and Offenses Against Public Order, Etc.

Abortion . . . . .	2
Abortion, accessory to . . . . .	1
Absent without leave from United States Army . . . . .	1
Absent without leave from United States Navy . . . . .	1
Accosting females . . . . .	3
Bail surrender . . . . .	1
Bastardy . . . . .	6
Burglar's tools, in possession of . . . . .	1
Capais . . . . .	2
Carrying firearms without license . . . . .	3
Contempt of court . . . . .	1
Cruelty to animals . . . . .	6
Default . . . . .	13
Deserters from United States Army . . . . .	4
Deserters from United States Navy . . . . .	4
Desertion of wife . . . . .	2
Disorderly conduct in public conveyance . . . . .	3
Disorderly house, keeping . . . . .	1
Disturbing the peace . . . . .	4
Disturbing a public assembly . . . . .	5
Disturbance in public library . . . . .	1
Dog keeping, unlicensed . . . . .	1
Drunkenness . . . . .	684
Drunkenness, common . . . . .	8
Enticing a female for sexual intercourse . . . . .	1
False statement in procuring marriage license . . . . .	1
Fireworks, keeping for sale without permit . . . . .	2
Forgery . . . . .	2
Fornication . . . . .	1
Fugitive from justice . . . . .	1
Gaming implements, present when found . . . . .	99
Gaming nuisance . . . . .	1
Idle and disorderly . . . . .	3
Impersonation of police officer . . . . .	1
Indecent exposure of person . . . . .	5

Lewd and lascivious . . . . .	2
Neglected children . . . . .	8
Neglect to heat apartment . . . . .	1
Neglect to support . . . . .	89
Peddling, unlicensed . . . . .	3
Runaway boy . . . . .	1
Safe keeping, demented . . . . .	18
Safe keeping, escape from Lyman School for Boys . . . . .	2
Safe keeping, escaped insane inmates . . . . .	4
Safe keeping, escape from Training School . . . . .	4
Safe keeping, infirm . . . . .	1
Safe keeping, insane . . . . .	4
Safe keeping, prisoners for Federal Officers . . . . .	2
Safe keeping, revoke of parole . . . . .	13
Safe keeping, runaway children . . . . .	6
Safe keeping, runaways from State Almshouse . . . . .	5
Safe keeping, state ward . . . . .	1
Stubbornness . . . . .	14
Suspicious persons . . . . .	6
Uttering forged instrument . . . . .	2
Vagrants . . . . .	3
Violation of Board of Health rule . . . . .	1
Violation of city ordinances . . . . .	46
Violation of labor laws . . . . .	7
Violation of liquor laws . . . . .	50
Violation of Lord's Day . . . . .	57
Violation of milk laws . . . . .	3
Violation of motor vehicle laws . . . . .	318
Violation of terms of probation . . . . .	31
Violation of prohibition law . . . . .	1
Violation of school laws . . . . .	17
Violation of water meter law . . . . .	1
	<hr/>
	1,596

#### Recapitulation.

(1) Crimes and Offenses Against the Person . . . . .	190
(2) Crimes and Offenses Against Property . . . . .	337
(3) Crimes and Offenses Against Public Order, etc., . . . . .	1,596
	<hr/>
Total number of arrests made . . . . .	2,123
Bailed to appear at other courts . . . . .	30
Cases in which nolle prosequi was entered, etc. . . . .	35
Contempt of court . . . . .	1
Delivered to Superior Court, indictment, etc. . . . .	4
Released by probation officer, drunkenness, etc. . . . .	36
Surrendered to court, violation probation, etc. . . . .	24
Surrendered to other officers, institutions, etc. . . . .	154
Case pending . . . . .	1
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	285
Number of cases held for trial . . . . .	1,838

NOTE,— Two hundred and eighty-eight of the above number of cases were juveniles and delinquents.

## Miscellaneous Reports.

Abandoned automobiles and trucks, found . . . . .	51
Abandoned infant . . . . .	1
Accidents reported . . . . .	697
Accosting a female . . . . .	1
Amount of property stolen . . . . .	\$109,721 80
Amount of stolen property, recovered . . . . .	155,915 81
Amount of property, damaged . . . . .	100 00
Amount of property lost . . . . .	897 00
Amount of property found . . . . .	147 72
Assaults . . . . .	8
Assault, indecent . . . . .	3
Assault, intent to rob . . . . .	1
Assault and battery . . . . .	6
Attempts to assault . . . . .	2
Attempts to break and enter . . . . .	68
Attempts to break and enter, false alarms of . . . . .	3
Attempts to commit larceny . . . . .	6
Attempts to commit suicide . . . . .	4
Attempts to rob . . . . .	3
Breaking and entering, false alarms of . . . . .	8
Buildings broken and entered, nothing stolen . . . . .	52
Buildings found open . . . . .	434
Cat killed . . . . .	1
Cellar flooded . . . . .	2
Child deserted . . . . .	1
Cruelty to animals . . . . .	3
Dead animals, found . . . . .	9
Dead body, found . . . . .	1
Defective bill boards . . . . .	3
" bridges . . . . .	18
" buildings . . . . .	4
" catch basins . . . . .	29
" chimneys . . . . .	2
" coal - hole . . . . .	1
" curb stones . . . . .	2
" drinking fountains . . . . .	7
" electric lamps . . . . .	13
" fences . . . . .	10
" gas gate box . . . . .	1
" hydrants . . . . .	12
" man - hole covers . . . . .	8
" playground . . . . .	1
" poles . . . . .	26
" police signal service . . . . .	15
" railway . . . . .	1
" sewer . . . . .	1
" sidewalks . . . . .	414
" signs and sign posts . . . . .	107
" spot - light . . . . .	1
" stairs and railing . . . . .	2
" streets . . . . .	143
" subway . . . . .	1
" voting list boards . . . . .	4
" water gates . . . . .	18
" wires . . . . .	195
Demented persons . . . . .	2
Disorderly house . . . . .	1

Disturbances . . . . .	44
Dogs killed . . . . .	24
Dog unlicensed . . . . .	1
Dogs, vicious . . . . .	5
Fires, alarms given for . . . . .	3
Fire, danger of . . . . .	1
Fires, false alarms of . . . . .	29
Fires, needless alarms for . . . . .	3
Fires reported . . . . .	202
Fraud . . . . .	6
Gas leaks . . . . .	3
Heat prostration . . . . .	1
Horses killed . . . . .	4
Houses unoccupied . . . . .	58
Indecent exposure of person . . . . .	4
Larcenies, no value given . . . . .	141
Larcenies . . . . .	545
Lost children . . . . .	281
Lost children, found . . . . .	231
Malicious mischief . . . . .	29
Missing persons . . . . .	72
Missing persons found . . . . .	72
Murders . . . . .	2
Obstructions on railroad tracks . . . . .	4
Obstructions on sidewalks . . . . .	12
Obstructions in streets . . . . .	24
Obstructions in streets, lighted . . . . .	4
Obstruction in street, not lighted . . . . .	1
Panes of glass broken . . . . .	118
Permits to labor on Lord's Day . . . . .	78
Permits issued to carry firearms . . . . .	223
Persons bitten by dogs . . . . .	18
Persons helped home . . . . .	1
Property damaged and destroyed . . . . .	69
Property lost, no value given . . . . .	63
Property found, no value given . . . . .	76
Railroad car broken and entered, nothing stolen . . . . .	1
Rescue from drowning . . . . .	1
Robberies . . . . .	9
Runaway children . . . . .	11
Runaway children, found . . . . .	18
Runaway horses . . . . .	2
Runaway teams . . . . .	4
Sidewalks dangerous, from snow and ice . . . . .	26
Sidewalks flooded . . . . .	1
Somnambulist . . . . .	1
Still born infant, found . . . . .	1
Stray bullets, fired . . . . .	7
Stray cats . . . . .	2
Stray cat, found . . . . .	1
Stray cow, found . . . . .	1
Stray dogs . . . . .	102
Stray dogs, found . . . . .	51
Stray fowl . . . . .	2
Stray fowl, found . . . . .	2
Stray horse . . . . .	1
Stray horses, found . . . . .	7
Stray mule, found . . . . .	1

Stray teams . . . . .	9
Stray teams, found . . . . .	11
Streets dangerous from snow and ice . . . . .	17
Streets flooded . . . . .	5
Street lights reported . . . . .	6,954
Sudden deaths . . . . .	6
Suicides . . . . .	2
Summonses served for witnesses and defendants to appear in court at other places . . . . .	553
Suspicious persons . . . . .	144
Threats . . . . .	1
Trees and branches dangerous . . . . .	136
Trespass . . . . .	26
Trespass, wilful . . . . .	4
United States mail box, found open . . . . .	1
Unlawful appropriation of a horse . . . . .	1
Violation, board of health regulations . . . . .	4
Violation of city ordinances . . . . .	205
Violation of Federal law . . . . .	1
Violation of Lord's Day . . . . .	6
Violation of motor vehicle laws . . . . .	11
Water pipes, leaking . . . . .	107
Windows broken . . . . .	43

#### Transfers and Sales of Motor Vehicles.

Officers report on investigation, card indexing and filing sales and transfers of motor vehicles.

Number of licenses granted by License Commission.

First class . . . . .	6
Second class . . . . .	28
Third class . . . . .	5
Total . . . . .	39

Number of sales and transfers made by the thirty-nine dealers	3,783
Number of individual sales . . . . .	1,360
Number of stolen motor vehicles reported by the several Police Departments, Insurance Agencies and Detective Bureaus in the United States and Canada . . . . .	10,748
Number of motor vehicles reported recovered by same . . . . .	2,838
Number of index cards printed and filed . . . . .	18,729

## OFFICIAL ROSTER OF DEPARTMENT.

## Chief of Police.

Charles A. Kendall

## Captain.

Eugene A. Carter.

## Lieutenants.

James M. Harmon

John A. Ray

## Inspectors.

Thomas Damery

Michael T. Kennedy

## Sergeants.

Frank H. Graves

William G. Kenney

James M. Lynch

Robert T. Blair

Ernest Howard

Thomas P. Walsh

## Patrolmen.

- |                               |                            |
|-------------------------------|----------------------------|
| 1 — Edward M. Carter          | 41 — John J. McCahey       |
| 2 — Francis A. Perkins        | 42 — Alexander Morrison    |
| 3 — Theodore E. Heron         | 43 — Daniel J. Powers      |
| 4 — Daniel G. Simons          | 44 — Jeremiah O'Connor     |
| 5 — Samuel Burns              | 45 — Charles E. Wilson     |
| 6 — John A. Dadmun            | 46 — Timothy Buckley       |
| 7 — George L. Rice            | 47 — John J. Killourhy     |
| 8 — Myron S. Gott             | 48 — Charles J. Sharry     |
| 9 — Charles W. Reick          | 49 — Thomas M. Sharry      |
| 10 — Frank C. Hopkins         | 50 — Michael J. O'Loughlin |
| 11 — Hudson M. Howe           | 51 — Charles W. Shepherd   |
| 12 — Sanford S. Lewis         | 52 — John F. Cruise        |
| 13 — Henry A. Sudbey          | 53 — John J. Shay          |
| 14 — Thomas F. McNamara       | 54 — Edward G. Butman      |
| 15 — Louis F. Arnold          | 55 — John P. L. O'Keefe    |
| 16 — Charles S. Johnston      | 56 — Alfred E. Robitaille  |
| 17 — Claude L. Crossman       | 57 — Allan S. Burns        |
| 18 — John J. Cummings         | 58 — William H. Donovan    |
| 19 — Edmund J. Keane          | 59 — George R. Allan       |
| 20 — Denis Downey             | 60 — Jeremiah Keniry       |
| 21 — Edward M. Davies         | 61 — James Murray          |
| 22 — George A. C. Peters      | 62 — Charles J. Fulton     |
| 23 — Louis J. Belzarini       | 63 — Edward F. Culliton    |
| 24 — Walter Reed              | 64 — Alfred J. McFadden    |
| 25 — Dennis G. Mulqueeney     | 65 — James A. Fitzpatrick  |
| 26 — Patrick J. Doolin        | 66 — Elmer E. G. Raymond   |
| 27 — Edward J. Hopkins        | 67 — Frank J. Roche        |
| 28 — Walter L. Groves         | 68 — Augustine F. Sharry   |
| 29 — Frederick G. Jones       | 69 — Daniel M. O'Connell   |
| 30 — Joseph A. Dwyer          | 70 — Chester C. F. Warner  |
| 31 — Augustine J. Fitzpatrick | 71 — George D. MacDonald   |
| 32 — Patrick McGrath          | 72 — Charles F. Lacey      |
| 33 — Bernard McCabe           | 73 — William E. Dwyer      |
| 34 — Harry C. Young           | 74 — Charles H. McAvoy     |
| 35 — Robert D. Dewar          | 75 — James F. Holmes       |
| 36 — Peter Moore              | 76 — Earle W. Elliott      |
| 37 — Albert C. Hawes          | 77 — Michael J. Dowd, Jr.  |
| 38 — Walter C. Oesting        | 78 — Patrick J. Lyons      |
| 39 — John L. Cameron          | 79 — Alfred S. Macomber    |
| 40 — Francis P. Higgins       |                            |



**Reservemen.**

80 — Thomas A. Donovan	84 — Leo J. Hurley
81 — Thomas J. Flanagan	85 — Henry W. Roche
82 — Timothy J. Corkery	86 — John H. Baker
83 — John H. O'Leary	

**Chauffeurs and Patrol Drivers.**

James W. Lundergan	James H. White
John H. McKenzie.	

**Matron.**

Mrs. Mina T. Weeks.

**Assistant Matron.**

Mrs. Katherine Woods.

**Pensioners, Retired On Half Pay.**

John E. Fuller,	Mar. 23, 1906	Jacob W. Skinner,	Dec. 31, 1917
Ira S. Carleton,	May 9, 1907	Elmer E. Drew,	July 25, 1918
James J. Pollard,	Feb. 27, 1908	Ernest S. Goff,	July 11, 1919
Herbert Hilton,	Dec. 21, 1911	Charles W. Allen,	Mar. 26, 1920
Ezra A. Dodge,	Mar. 14, 1914	Jotham Chisholm,	Apr. 23, 1920
George H. Carleton,	Mar. 27, 1914	Charles E. Woodman,	June 24, 1921
Frederick H. Googins,	Mar. 12, 1915		

**CHANGES IN THE FORCE.****Appointments.**

Thomas A. Donovan,	appointed reserveman,	May 15, 1921.
Thomas J. Flanagan,	appointed reserveman,	May 15, 1921.
Timothy J. Corkery,	appointed reserveman,	May 15, 1921.
John H. O'Leary,	appointed reserveman,	May 15, 1921.
Leo J. Hurley	appointed reserveman,	May 15, 1921.
Henry W. Roche,	appointed reserveman,	May 15, 1921.
John H. Baker,	appointed reserveman,	May 15, 1921.

**Promotions.**

Reserveman, James F. Holmes,	promoted to patrolman,	May 13, 1921
Reserveman, Earle W. Elliott,	promoted to patrolman,	May 14, 1921
Reserveman, Michael J. Dowd, Jr.	promoted to patrolman,	May 13, 1921
Reserveman, Patrick J. Lyons,	promoted to patrolman,	May 13, 1921
Reserveman, Alfred S. Macomber,	promoted to patrolman,	May 13, 1921

**Retirements.**

Lieutenant, Charles E. Woodman,	placed on pension roll,	June 24, 1921
Patrolman, Denis Neylon,	placed on pension roll,	June 24, 1921

### Deaths

Patrolman, William J. Warner died July 15, 1921, as a result of injuries received while on duty July 14, 1921. Patrolman Warner left a widow and seven children. The City of Somerville paid \$1,000 to the family of the deceased officer and a sum of money raised by subscription from the citizens was also donated to the family.

Retired chief of police, Melville C. Parkhurst died Aug. 18, 1921

Retired captain of police, Robert R. Perry died Oct. 5, 1921.

Retired patrolman, Denis Neylon, died Nov. 11, 1921.

### Police Signal Service.

Number of on duty calls made by the patrolmen . . .	267,867
Telephone calls made by the officers and patrolmen . . .	44,725

### "White" Combination Automobile Service.

Number of runs made in conveying prisoners to station . . .	49
Number of prisoners conveyed . . . . .	87
Number of sick and injured conveyed . . . . .	549
Number of miles run in conveying prisoners to station . . . . .	82.4
Number of miles run in conveying sick and injured . . . . .	1,730.3
Number of miles run in conveying prisoners to and from jail . . . . .	15.3
Number of miles run elsewhere . . . . .	343.9
	<hr/>
Total number of miles during year . . . . .	2,171.9

### "Reo Combination Automobile Service.

Number of runs made in conveying prisoners to station . . .	709
Number of prisoners conveyed . . . . .	938
Number of sick and injured conveyed . . . . .	66
Number of miles run in conveying prisoners to station . . . . .	1,420.7
Number of miles run in conveying sick and injured . . . . .	213.2
Number of miles run in conveying prisoners to and from jail . . . . .	402.9
Number of miles run elsewhere . . . . .	827.2
	<hr/>
Total number of miles during year . . . . .	2,864.0

### Touring Car Reports.

Number of prisoners conveyed to station . . . . .	99
Number of sick and injured conveyed . . . . .	11
Number of prisoners conveyed to and from jail . . . . .	1

### Horse Drawn Patrol Wagon and Ambulance Reports.

Number of runs made in conveying prisoners to station . . .	3
Number of prisoners conveyed . . . . .	3
Number of sick and injured conveyed . . . . .	21
Number of miles run in conveying prisoners to station . . .	3

### Harley - Davidson Motorcycle Report.

Total mileage for the year . . . . .	3,985
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## REPORT OF POLICE MATRON.

December 31, 1921.

To Charles A. Kendall, Chief of Police.

Dear Sir:—

I herewith submit my report as matron for the year ending December 31, 1921. The following females and minors were committed to my care, charged with the following offenses, etc.

Abortion . . . . .	1
Assault . . . . .	1
Assault and battery . . . . .	20
Bail surrender . . . . .	1
Being present where gaming implements were found . . . . .	2
Common drunkard . . . . .	1
Default warrant . . . . .	1
Disorderly house . . . . .	1
Drunkenness . . . . .	10
False statement, marriage certificate . . . . .	1
Illegal sale of intoxicating liquor . . . . .	2
Illegal keeping of intoxicating liquor . . . . .	1
Larceny . . . . .	10
Lewd and lascivious cohabitation . . . . .	1
Lost children . . . . .	105
Manslaughter . . . . .	1
Neglected child . . . . .	1
Revoke of parole . . . . .	1
Safe keeping . . . . .	6
Stubbornness . . . . .	6
Threats . . . . .	2
Trespass . . . . .	2
Uttering forged instrument . . . . .	1
Violation of probation . . . . .	4
Total . . . . .	<hr/> 182

I have reported at station each day and have attended the sessions of the juvenile court, looking after minors who have been in court.

Respectfully submitted,

MRS. MINA T. WEEKS, *Matron.*

The vehicles in the department have all been motorized, early in the year the horse which was in use was sold to the Highway Department, a new motor-cycle was purchased which was much needed. The police building needs to be thoroughly repaired and enlarged garage space with suitable heating apparatus installed. A new patrol car to replace one of the older ones.

Increased number of patrolmen and the establishment of a traffic and liquor squads, one lieutenant appointed to fill a vacancy.

To all city officials who have business with this department and to the officers under my command I wish to tender my thanks for all assistance rendered.

Respectfully submitted,

CHARLES A. KENDALL,

*Chief of Police.*

## REPORT OF THE CITY CLERK.

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OFFICE OF THE CITY CLERK,  
January 1, 1922.

To the Honorable, the Mayor and the Board of Aldermen:—

Gentlemen:—The following is respectfully submitted as the fiftieth annual report of the City Clerk of the City of Somerville, and is for the year ending December 31, 1921.

The receipts and payments were as follows:—

### Receipts.

Balance from year 1920, being for dog licenses issued in December, 1920:—		
10 males at \$2.00 . . . . .	\$20 00	
2 spayed at \$2.00 . . . . .	4 00	
	\$24 00	
Less city clerk's fees paid to the city treasurer, 12 at \$ .20 . . . . .	2 40	
		\$21 60
For dog licenses issued in 1921:—		
638 males at \$2.00 . . . . .	\$1,276 00	
155 females at \$5.00 . . . . .	775 00	
87 spayed at \$2.00 . . . . .	174 00	
3 kennel at \$25.00 . . . . .	75 00	
		2,300 00
For hunting and fishing licenses issued in 1921:—		
404 resident hunters at \$1.00 . . . . .	\$404 00	
2 alien hunters at \$15.00 . . . . .	30 00	
251 resident fishermen at \$ .50 . . . . .	125 50	
3 alien fishermen at \$1.00 . . . . .	3 00	
3 trappers at \$ .25 . . . . .	.75	
		563 25
Recording mortgages, assignments, etc., 974 papers . . . . .		\$1,247 35
Certificates of marriage intentions,—		
1278 licenses and 2 duplicates less one refund . . . . .	1,279 00	
Furnishing copies of records . . . . .		242 70
Amounts carried forward . . . . .	\$2,769 05	\$2,884 85

Amounts brought forward . . . . .	\$2,769 05	\$2,884 85
Licenses:—		
Auctioneers, 37 licenses at \$2.00 . . . . .	\$74 00	
Billiard and pool tables and bowling alleys:—		
199 licenses for 129 tables and 70 alleys, at \$2.00 . . . . .	\$398 00	
Drain layers, 3 licenses at \$1.00 . . . . .	3 00	
Drivers, 1 license at \$1.00 . . . . .	1 00	
Engines and motors,—		
19 licenses for 14 motors, 2 boilers and 3 gas engines at \$1.00 . . . . .	\$19 00	
Garages,—		
358 licenses, including 9 granted in 1920, at \$2.00 . . . . .	\$716 00	
Gasoline tanks,—39 licenses at \$1.00 . . . . .	39 00	
Hackney carriages,—6 licenses at \$1.00 . . . . .	6 00	
Intelligence offices 3 licenses at \$2.00 . . . . .	6 00	
Junk and second hand licenses,—		
20 licenses, at \$25.00 . . . . .	\$500 00	
21 licenses, at \$10.00 . . . . .	210 00	
	<hr/>	710 00
Slaughtering,—7 licenses at \$1.00 . . . . .	7 00	
Street Musicians,—8 licenses for 8 persons at \$ .50 . . . . .	4 00	
Wagons,—84 licenses at \$1.00 . . . . .	84 00	
Wagon stands,—4 licenses at \$1.00 . . . . .	4 00	
Permits for projections over sidewalks,—		
19 permits for 14 signs, 2 marquees, 1 movable conveyor, 1 awning and 1 post and sign, including 1 permit granted in 1919, and 1 permit granted in 1920, at \$1.00 . . . . .	19 00	
Filing certificates, under Acts of 1908, Chap. 502, 1 at \$ .50 . . . . .		
Interest on deposits . . . . .	8 28	
Repairing and sale of junk badges . . . . .	3 75	
Witness fees . . . . .	3 55	
Refund bond premium . . . . .	14 40	
Optometrists' registration, 3 at \$ .50 . . . . .	1 50	
Physicians' registration, 3 at \$ .25 . . . . .	.75	
	<hr/>	\$4,891 78
Total receipts . . . . .		<hr/> \$7,776 63

## Payments.

To Joseph O. Hayden, county treasurer,  
June 1 and December 1, receipts for dog  
licenses from December 1, 1920, to  
November 30, 1921, both inclusive:—

645 males at \$2.00 . . . .	\$1,290 00
154 females at \$5 00 . . . .	765 00
88 spayed at \$2.00 . . . .	176 00
3 kennel at \$25.00 . . . .	75 00

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 2,306 00

Less city clerk's fees, 871 at \$ .20 . . . .

---

 177 80

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 \$2,128 20

To the Commissioners on Fisheries and  
Game for licenses for hunting and fish-  
ing in 1921,—

404 resident hunters at \$1.00 . . . .	\$404 00
2 alien hunters at \$15.00 . . . .	30 00
251 resident fishermen at \$ .50 . . . .	125 50
3 alien fishermen at \$1.00 . . . .	3 00
3 trappers at \$ .25 . . . .	.75

---

 \$563 25

Less city clerk's fees, 663 at \$ .15 . . . .

---

 99 45

---

 463 80

To the city treasurer monthly:—

City clerk's fees for issuing and record- ing dog licenses, 883 at \$ .20 . . . .	\$176 60
City clerks fees for issuing and record- ing fishing and hunting licenses, 663 at \$ .15 . . . .	99 45
All the receipts above specified except for dog licenses and fishing and hunting licenses . . . .	4,891 78

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 4,891 78

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 5,167 83

Total payments . . . .

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 \$7,759 83

Balance, January 1, 1922, being for dog li-  
censes issued in December, 1921:—

3 males at \$2.00 . . . .	\$6 00
2 females at \$5.00 . . . .	10 00
1 spayed at \$2.00 . . . .	2 00

---

 \$18 00

Less city clerk's fees paid to the city  
treasurer, 6 at \$ .20 . . . .

---

 1 60

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 \$16 80

## Licenses and Permits.

Besides the licenses mentioned in the foregoing list of receipts, licenses and permits have been granted by the Board of Aldermen, without charge, as follows:—

Children under fifteen to take part in entertainments	10
Newsboys	18
To hold religious services in streets and squares	4
To parade in streets, with music, etc.	4
To sing from auto truck	1
Approval of construction of stable, etc.	1
To move buildings through streets	7

## Births.

1921.

Number of births reported by physicians and midwives for 1921.

Males	835
Females	907

A canvass of the city is at present being made under the direction of the city clerk as required by section 5, chapter 46, of the General Laws, to ascertain the facts required for record relative to children born during the year.

As the information derived from such canvass will not be available in time sufficient for its incorporation in this report, a statement in full of the births of 1921 will be given in the city clerk's report for the year 1922.

1920.

The following is a statement in full of the births for 1920.

Number of births (exclusive of still births) in Somerville in 1920 registered	1919
More than previous year	30
Males	1034
Females	885
	1919
Born of American parents	877
Born of foreign parents	629
Born of American father and foreign mother	184
Born of foreign father and American mother	214
Born of American mother and father of unknown nationality	11
Born of foreign mother and father of unknown nationality	4
	1919



Number of still births in Somerville in 1920 as registered . . . . .	65
Number of births in other places in 1920 registered	589
	<hr/>
	2573
Number of cases of twins . . . . .	22

## Marriages.

Number of intention certificates issued in 1921	1278
Less than previous year . . . . .	14
Marriages registered . . . . .	1279
Less than previous year . . . . .	74
Both parties American . . . . .	809
Both parties foreign . . . . .	213
American groom and foreign bride . . . . .	113
Foreign groom and American bride . . . . .	144
	<hr/>
	1279 c'pls
First marriage of . . . . .	2226
Second marriage of . . . . .	319
Third marriage of . . . . .	13
	<hr/>
	1279 c'pls

## Deaths.

(Exclusive of still births.)

Number of deaths in Somerville in 1921 . . . . .	986
Less than previous year . . . . .	51
Males . . . . .	464
Females . . . . .	522
	<hr/>
	986
Under ten years of age . . . . .	195
10 and under 20 years of age . . . . .	45
20 and under 30 years of age . . . . .	53
30 and under 40 years of age . . . . .	47
40 and under 50 years of age . . . . .	77
50 and under 60 years of age . . . . .	107
60 and under 70 years of age . . . . .	172
70 and under 80 years of age . . . . .	190
80 and under 90 years of age . . . . .	89
90 years of age and over . . . . .	11
	<hr/>
	986
Age of oldest person deceased . . . . . 100 years	
Born in Somerville . . . . .	210
Born in other places in the United States . . . . .	417
Of foreign birth . . . . .	357
Birthplace unknown . . . . .	2
	<hr/>
	986

Number of deaths in January . . . . .	111
Number of deaths in February . . . . .	87
Number of deaths in March . . . . .	100
Number of deaths in April . . . . .	77
Number of deaths in May . . . . .	96
Number of deaths in June . . . . .	78
Number of deaths in July . . . . .	73
Number of deaths in August . . . . .	65
Number of deaths in September . . . . .	68
Number of deaths in October . . . . .	85
Number of deaths in November . . . . .	71
Number of deaths in December . . . . .	75

The number of still-births during the year was seventy-seven. In addition to the above 230 deaths which occurred elsewhere were recorded in Somerville, almost the entire number of persons deceased having been residents of this city.

ASSESSED POLLS AND REGISTERED VOTERS.

WARD	Pct.	As- sessed Polls, April 1, 1921	REGISTERED VOTERS.								
			Oct. 13, 1920 Men	Oct. 13, 1920 Women	Re- vised Lists of Oct. 1, 1921 Men	Re- vised Lists of Oct. 1, 1921 Women	Add- ed in Oct. & Nov. 1921 Men	Add- ed in Oct. & Nov. 1921 Women	Nov. 23, 1921 Men	Nov. 23, 1921 Women	Voted Dec. 13, 1921
Ward 1	Pct. 1	1,606	796	438	724	415	77	94	801	509	989
" 1	" 2	1,143	600	324	523	293	87	96	610	389	733
" 1	" 3	564	289	161	267	128	45	47	312	175	380
" 1	" 4	600	210	104	187	82	24	18	211	100	276
		3,913	1,895	1,027	1,701	918	233	255	1,934	1,173	2,378
Ward 2	Pct. 1	1,108	379	154	325	148	43	36	368	184	373
" 2	" 2	1,779	864	465	753	427	91	100	844	527	741
" 2	" 3	799	376	190	334	157	47	43	381	200	372
		3,686	1,619	809	1,412	732	181	179	1,593	911	1,486
Ward 3	Pct. 1	1,446	936	723	860	652	65	68	925	720	1,044
" 3	" 2	1,375	811	624	731	557	81	81	812	638	996
		2,821	1,747	1,347	1,591	1,209	146	149	1,737	1,358	2,040
Ward 4	Pct. 1	1,485	843	587	752	511	97	104	849	615	875
" 4	" 2	1,390	793	569	727	514	55	71	782	585	807
		2,875	1,636	1,156	1,479	1,025	152	175	1,631	1,200	1,682
Ward 5	Pct. 1	1,531	946	830	873	753	60	48	933	801	987
" 5	" 2	1,180	761	550	690	489	45	63	735	552	723
" 5	" 3	1,039	648	449	596	406	58	57	654	463	764
		3,750	2,355	1,829	2,159	1,648	163	168	2,322	1,816	2,474
Ward 6	Pct. 1	1,154	673	522	600	415	65	64	665	479	715
" 6	" 2	1,420	734	436	665	347	74	43	739	390	600
" 6	" 3	989	611	480	559	429	46	49	605	478	614
" 6	" 4	1,337	910	604	836	537	62	79	898	616	859
		4,900	2,928	2,042	2,660	1,728	247	235	2,907	1,963	2,788
Ward 7	Pct. 1	1,119	841	586	766	546	48	82	814	628	894
" 7	" 2	1,415	867	665	781	633	82	68	863	701	873
" 7	" 3	1,632	976	682	884	627	85	68	969	695	922
" 7	" 4	1,130	755	562	689	519	51	53	740	572	813
" 7	" 5	868	588	395	529	385	50	54	579	439	536
		6,164	4,027	2,890	3,649	2,710	316	325	3,965	3,035	4,038
City	.....	28,109	16,207	11,100	14,651	9,970	1,438	1,486	16,098	11,456	16,886

## ELECTIONS.

The following is a statement of the votes cast, in the several wards of the city, for the candidates for the various offices, and on the question of granting licenses for the sale of certain non-intoxicating beverages in this city held December 13, 1921.

CANDIDATE.	PARTY.	WARDS.							Total.
		1	2	3	4	5	6	7	
<b>MAYOR</b>									
John J. Murphy	Democratic	1,117	2,248	665	475	942	868	796	5,994
John M. Webster	Republican	1,221	323	1,356	1,172	1,516	1,880	3,152	10,620
Eugene M. Carman	Republican						1		1
Blank		40	32	19	35	16	39	90	271
<b>ALDERMAN-AT-LARGE, WARD 1.</b>									
Lyman A. Hodgdon	Republican	1,338	269	1,160	1,030	1,519	1,612	2,757	9,685
Blank		1,040	1,217	880	652	955	1,176	1,281	7,201
<b>ALDERMAN-AT-LARGE, WARD 2.</b>									
Robert C. Harris	Republican	1,124	678	812	761	1,116	1,356	2,098	7,945
Fred Wilson	Independent	359	587	840	438	776	710	1,068	4,778
Blank		895	221	388	483	582	722	872	4,163
<b>ALDERMAN-AT-LARGE, WARD 3.</b>									
William C. Abbott	Republican	984	274	1,363	989	1,490	1,574	2,653	9,327
Blank		1,394	1,212	677	693	984	1,214	1,385	7,559
<b>ALDERMAN-AT-LARGE, WARD 4.</b>									
Waldo D. Phelps	Republican	1,135	316	1,181	1,285	1,532	1,610	2,663	9,722
Warren A. Perry	Republican				1				1
Blank		1,243	1,170	859	396	942	1,178	1,375	7,163
<b>ALDERMAN-AT-LARGE, WARD 5.</b>									
Fred Allen	Republican	984	267	1,137	968	1,732	1,541	2,615	9,244
Francis Q. Harrington						1			1
Blank		1,394	1,219	903	714	741	1,247	1,423	7,641
<b>ALDERMAN-AT-LARGE, WARD 6.</b>									
Enoch B. Robertson	Republican	985	300	1,127	952	1,467	2,051	2,644	9,526
Blank		1,393	1,186	913	730	1,007	737	1,394	7,360
<b>ALDERMAN-AT-LARGE, WARD 7</b>									
Hiram N. Dearborn	Republican	966	256	1,117	944	1,447	1,558	3,181	9,467
A. A. Young				1					1
Blank		1,412	1,230	922	738	1,029	1,230	857	7,416

CANDIDATE.	PARTY.	WARDS.							Total.
		1	2	3	4	5	6	7	
WARD ALDERMEN (2) WARD 1.									
William F. Burns	Democratic	1,272							1,272
Arthur S. Crossman	Republican	962							962
William J. Donovan	Democratic	842							842
John R. Spiers	Republican	1,079							1,079
Blank		601							601
WARD ALDERMEN (2) WARD 2.									
Frank J. Eigabroadt	Republican		165						165
Joseph A. Haley	Democratic		907						907
John Joseph Hoban	Democratic		926						926
John J. Sheeran			308						308
Blank			666						666
WARD ALDERMEN (2) WARD 3.									
George A. Berry	Republican			1,393					1,393
Thomas D. Mitchell	Republican			1,535					1,535
Blank				1,152					1,152
WARD ALDERMEN (2) WARD 4.									
John S. Smith, Jr.	Republican				1,091				1,091
Henry F. Welch	Republican				1,178				1,178
Fred H. Parker					1				1
Warren A. Perry					2				2
Blank					1,092				1,092
WARD ALDERMEN (2) WARD 5.									
J. Freeman Saville	Republican					1,590			1,590
Francis W. K. Smith	Republican					1,645			1,645
John D. Flynn						1			1
Patrick H. Ryan						1			1
Blank						1,711			1,711
WARD ALDERMEN (2) WARD 6.									
Albert E. Hughes	Republican						2,046		2,046
William M. Morrison	Republican						1,924		1,924
Benj. Surret							1		1
Blank							1,605		1,605
WARD ALDERMEN (2) WARD 7.									
Emerson J. Coldwell	Republican							2,958	2,958
Arthur F. Mason	Republican							2,960	2,960
Blank								2,158	2,158
SCHOOL COMMITTEE (2) WARD 1.									
Julia A. Crowley	Democratic	1,148							1,148
Tenney L. Davis	Republican	1,039							1,039
Francis J. Fitzpatrick	Democratic	1,157							1,157
Emma Prichard Hadley	Republican	1,062							1,062
Blank		350							350

CANDIDATE.	PARTY.	WARDS.							Total
		1	2	3	4	5	6	7	
SCHOOL COMMITTEE, (2)									
WARD 2.									
Daniel H. Bradley	Democratic		926						926
Christopher J. Muldoon	Democratic		868						868
Blank			1,178						1,178
SCHOOL COMMITTEE, (2)									
WARD 3.									
Charles W. Boyer	Republican			1,300					1,300
Oscar W. Coddling	Republican			1,363					1,363
Van Iderstein				1					1
Blank				1,416					1,416
SCHOOL COMMITTEE, (2)									
WARD 4.									
Katherine C. Coveney	Republican				1,211				1,211
Richard L. Rice	Republican				1,132				1,132
Edw. I. Tripp					1				1
Blank					1,020				1,020
SCHOOL COMMITTEE, (2)									
WARD 5.									
Harry M. Stoodley	Republican					1,685			1,685
Minnie S. Turner	Republican					1,650			1,650
Ruth H. Hallion						1			1
Blank						1,612			1,612
SCHOOL COMMITTEE, (2)									
WARD 6.									
Walter I. Chapman	Republican						1,996		1,996
Walter Frye Turner	Republican						1,903		1,903
Blank							1,677		1,677
SCHOOL COMMITTEE, (2)									
WARD 7.									
Herbert Cholerton	Republican							3,089	3,089
Paul O. Curtis	Republican							3,130	3,130
Blank								1,857	1,857
SHALL LICENSES BE GRANTED FOR THE SALE OF CERTAIN NON-INTOXICATING BEV- ERAGES IN THIS CITY?									
Number of "YES" votes		892	678	586	483	704	861	939	5,143
Number of "NO" votes		961	358	1,118	915	1,359	1,523	2,517	8,751
Blank		525	450	336	284	411	404	582	2,992

## Liquor License Question.

The following is a statement of the votes, during the several years of its submission to the people, on the question of granting licenses for the sale of intoxicating liquors, in this city, together with the number of registered voters and the estimated population for each year:—

YEAR.	YES.	NO.	BLANK.	REGISTERED VOTERS.	ESTIMATED POPULATION.
1881	979	1,222		3,678	26,000
1882	627	1,159		3,778	26,500
1883	767	1,343		4,407	27,000
1884	806	1,709		4,470	28,000
1885	428	1,604		3,969	*29,992
1886	214	1,321		4,089	32,000
1887	555	2,427		4,574	34,000
1888	744	2,456		5,399	36,000
1889	635	1,706	335	5,286	39,000
1890	999	2,282	409	5,556	*40,117
1891	1,054	2,598	279	5,938	43,000
1892	1,427	3,288	347	7,587	46,000
1893	1,547	2,654	218	7,943	48,000
1894	1,098	2,869	246	8,007	50,000
1895	1,854	4,708	459	8,410	*52,200
1896	1,466	3,680	332	9,379	54,000
1897	1,626	3,815	486	8,925	56,000
1898	1,595	3,501	486	8,657	57,500
1899	1,892	3,340	374	8,838	60,000
1900	1,660	3,427	321	9,620	*61,643
1901	1,579	3,295	374	9,499	63,500
1902	1,645	3,242	360	10,100	65,000
1903	2,248	4,410	550	11,346	67,000
1904	2,022	4,338	447	11,682	69,500
1905	2,483	4,660	531	11,340	*69,272
1906	2,193	5,204	582	11,571	70,000
1907	1,735	4,591	459	11,558	74,000
1908	1,780	4,760	491	12,777	75,500
1909	1,830	4,601	530	12,479	75,500
1910	1,544	3,968	365	12,522	*77,236
1911	2,193	4,841	492	13,226	80,000
1912	2,421	6,182	546	13,854	81,000
1913	2,348	6,431	550	13,417	82,000
1914	2,178	5,535	488	13,404	85,000
1915	1,705	5,262	379	13,805	*86,854
1916	1,100	4,158	271	14,500	88,000
1917	1,291	3,457	232	13,826	90,000
1918	690	1,935	161	13,477	90,500
1919	2,777	2,297	261	14,810	91,000
1920				27,307	*93,091
1921	5,143	8,751	2,992	27,545	95,000

\*Census.

## ORDINANCES.

Somerville, January 1, 1922.

The following ordinances have been adopted since the printing of the annual reports for the year 1920:—

## ORDINANCE NO. 93.

## An Ordinance Relative to Settlement of Claims.

*Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—*

Section 1. The mayor may with the approval of the head of a department and the city solicitor make settlements of claims in favor of the city and sign, seal and deliver in the name and behalf of the city releases for not more than two hundred dollars on any one claim.

Section 2. This ordinance shall take effect upon its passage.

*Approved January 14, 1921.*

## ORDINANCE NO. 94.

## An Ordinance to Amend Chapter XXVII of the Revised Ordinances of 1911.

*Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—*

Section 1. Section 3 of Chapter XXVII of the Revised Ordinances of 1911 is hereby amended by adding at the end of said section the following:

Lodging House, \$2.00.

Section 2. This ordinance shall take effect upon its passage.

*Approved April 15, 1921.*

## ORDINANCE NO. 95.

## An Ordinance Establishing the Somerville Public Welfare and Recreation Commission.

*Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—*

Section 1. The Playground Commission which this city is authorized to create under the provisions of Chapter 45 of the General Laws of Massachusetts shall be composed of ten citizens of this city. Women as well as men shall be eligible to be members of the commission. The title of the commission shall be "Somerville Public Welfare and Recreation Commission." The members of the commission shall serve without pay.



Section 2. The members of the commission shall be appointed by the mayor subject to the approval of the Board of Aldermen as soon as this ordinance takes effect, five to serve until the appointment and qualification of their successors in the year 1922, and five to serve until the appointment and qualification of their successors in the year 1923, and thereafter they shall be appointed yearly, five in each year to serve for two years and until the appointment and qualification of their successors. Any vacancy shall be filled by appointment for the balance of the unexpired term.

Section 3. Ordinance No. 82 entitled an Ordinance Establishing Recreation and Playground Commission is hereby repealed.

Section 4. This ordinance shall take effect upon its passage.

*Approved October 31, 1921*

### ORDINANCE NO. 96.

#### An Ordinance Relative to One Way Streets.

*Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—*

Section 1. No person shall cause or allow a vehicle other than a vehicle propelled by hand to pass along any portion of Webster avenue between Union square and Newton street except in a southerly direction; or along any portion of Walnut street except in a southwesterly direction; or along any portion of Franklin street between Washington street and Broadway except in a northeasterly direction; or along any portion of Broadway in that section between Fellsway East and Grant street northeasterly of the reservation in the centre of Broadway except in a northwesterly direction; or along any portion of Broadway between Fellsway East and Grant street in that section of Broadway southwesterly of the reservation in the centre of Broadway except in a southeasterly direction.

Section 2. This ordinance shall not apply to street railway cars.

Section 3. This ordinance shall not be construed to prohibit any vehicle from crossing the streets above mentioned.

Section 4. Whoever violates any provisions of this ordinance shall be liable to a penalty of not exceeding twenty dollars for each offense.

Section 5. This ordinance shall take effect January 1, 1922.

*Approved November 30, 1921.*

## CITY GOVERNMENT AND OFFICERS FOR 1921.

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### Mayor.

CHARLES W. ELDRIDGE, 47 Highland Road.

### Board of Aldermen.

*President*, RICHARD L. RICE

*Vice-President*, ALMON F. HEALD

#### WARD ONE.

James J. Shay, Alderman-at-large . . .	.	.	68 Mt. Pleasant Court
William F. Burns . . . . .	.	.	21 Illinois Avenue
Lyman A. Hodgdon . . . . .	.	.	8 Indiana Avenue

#### WARD TWO.

Robert C. Harris, Alderman-at-large . . .	.	.	12 Dimick Street
Peter F. Donnelly . . . . .	.	.	11 Allen Street
Joseph A. Haley . . . . .	.	.	7 Linden Street

#### WARD THREE.

George A. Berry, Alderman-at-large . . .	.	.	60 Prescott Street
William C. Abbott . . . . .	.	.	73 Avon Street
Charles E. Nichols, Jr. . . . .	.	.	19 Greenville Street

#### WARD FOUR.

Richard L. Rice, Alderman-at-large . . .	.	.	296½ Broadway
Waldo D. Phelps . . . . .	.	.	64 Flint Street
John S. Smith, Jr. . . . .	.	.	52 Sydney Street

#### WARD FIVE.

J. Freeman Saville, Alderman-at-large . . .	.	.	64 Sycamore Street
Fred Allen . . . . .	.	.	121 Central Street
Francis W. K. Smith . . . . .	.	.	133 Central Street

#### WARD SIX.

Enoch B. Robertson, Alderman-at-large . . .	.	.	39 Highland Road
Almon F. Heald . . . . .	.	.	83 Belmont Street
John E. Locatelli . . . . .	.	.	78 Belmont Street

## WARD SEVEN.

Hiram N. Dearborn, Alderman-at-large . . . . .	86 Electric Avenue
Emerson J. Coldwell . . . . .	27 Hall Avenue
Arthur F. Mason . . . . .	18 Hall Avenue

*City Clerk*, JASON M. CARSON.

*Assistant City Clerk*, CLARA B. SNOW.

*City Messenger*, FRED E. HANLEY.

Regular meetings, second and fourth Thursday evenings of each month, at 8 o'clock, except when such Thursday is a holiday, in which case the meeting is held on the preceding Tuesday evening.

### Standing Committees of the Board of Aldermen.

**ELECTRIC LINES AND LIGHTS** — Aldermen Shay, Phelps, Harris, Robertson and Saville.

**FINANCE** — The President, Aldermen Allen, Mason, Hodgdon, Haley, Berry and Heald.

**LEGISLATIVE MATTERS** — Aldermen Smith of Ward Five, Locatelli, Abbott, Shay and Harris.

**LICENSES AND PERMITS** — Aldermen Abbott, Smith of Ward Four, Mason, Donnelly, Burns, Smith of Ward Five, and Heald.

**PUBLIC PROPERTY** — Aldermen Heald, Coldwell, Abbott, Smith of Ward Four, and Hodgdon.

**PUBLIC SAFETY** — Aldermen Dearborn, Haley, Allen, Smith of Ward Four, and Nichols.

**PUBLIC SERVICE** — Aldermen Haley, Hodgdon, Berry, Phelps, Robertson, Saville and Dearborn.

**PUBLIC WORKS** — Aldermen Nichols, Allen, Locatelli, Burns, Coldwell, Donnelly and Phelps.

### School Committee.

*Chairman*, HERBERT CHOLERTON.

*Vice-Chairman*, WILLIAM M. MORRISON.

### Members.

Hon. Charles W. Eldridge, Mayor (ex-officio)	47 Highland road.
Richard L. Rice, Pres. Board of Aldermen, (ex-officio)	296½ Broadway

### WARD ONE.

Francis J. Fitzpatrick . . . . .	76 Broadway
William T. McCarthy . . . . .	38 Pearl street

### WARD TWO.

Daniel H. Bradley . . . . .	19 Concord avenue
Christopher Muldoon, Jr. . . . .	88 Concord avenue

## WARD THREE.

Charles W. Boyer . . . . .	104 Summer street
Oscar W. Codding . . . . .	59 Vinal avenue

## WARD FOUR.

Frank M Hawes . . . . .	257 School street
Edward I. Tripp . . . . .	21 Wigglesworth street

## WARD FIVE.

Harry M. Stoodley . . . . .	283 Highland avenue
Minnie S. Turner . . . . .	64 Hudson street

## WARD SIX.

Walter I. Chapman . . . . .	18-A Central street
William M. Morrison . . . . .	97 Rogers avenue

## WARD SEVEN.

Herbert Cholerton . . . . .	94 College avenue
Paul O. Curtis . . . . .	41 Mason street

*Superintendent and Secretary* — CHARLES S. CLARK.

Regular meetings last Monday evening of each month, except July and August, when none are held, and December, when meeting is held on the Friday preceding the first Monday in January.

**Assessors.**

FRED E. WARREN, Chairman (term expires 1923).  
 WINSOR L. SNOW (term expires 1924).  
 HARRY VAN IDERSTINE (term expires 1923).  
 J. ROBERT FENELON (term expires 1922).  
 DAVID B. ARMSTRONG (term expires 1924).

**Assistant Assessors.**

FRED B. CLAPP.	JOHN M. NANGLE.
JOHN S. MCGOWAN.	LEONARD C. SPINNEY.
LAWRENCE J. WARD.	SAMUEL C. WISWALL.
JOSEPH O. KNOX	FRED L. MAYNARD
JOHN J. MCCARTHY	JAMES T. BURKE
ARTHUR E. WHITE	HARRY L. HAZELTINE

**Board of Health.**

ROBERT M. LAVENDER, Chairman (term expires 1922).  
 WARREN C. BLAIR (term expires 1922).  
 JOHN E. GILLIS, M. D., (term expires 1923).  
*Clerk*—LAURENCE S. HOWARD.  
*Agent*—GEORGE I. CANFIELD.  
*Medical Inspector* — FRANK L. MORSE, M. D.  
*Inspector of Animals and Provisions*—CHARLES M. BERRY.  
*Inspector of Milk and Vinegar*—HERBERT E. BOWMAN.

**Overseers of the Poor.**

FRED E. DURGIN, Chairman (term expires 1923).  
 HENRY F. CURTIS (term expires 1922).  
 MICHAEL COLL, (term expires 1924).  
*Agent*—WILLIAM E. COPITHORNE.  
*Warden City Home*—J. FOSTER COLQUHOUN.  
*Matron City Home*—CATHERINE COLQUHOUN.

**Planning Board.**

WILLIAM F. RILEY, Chairman (term expires 1926).  
 DAVID J. KELLEY, Secretary (term expires 1924).  
 PAUL R. VALENTINE, (term expires 1922).  
 GEORGE J. RAUH, (term expires 1923).  
 Vacancy.

**Registrars of Voters.**

EDWIN D. SIBLEY, Chairman (term expires 1924).  
 DOUGLASS B. FOSTER (term expires 1923).  
 CHARLES LEO SHEA (term expires 1922).  
 JASON M. CARSON, *City Clerk*.

**Public Library Trustees.**

THOMAS M. DURELL, Chairman (term expires 1922).  
 J. FRANK WELLINGTON (term expires 1923).  
 FREDERICK W. PARKER (term expires 1924).  
 WILLIAM L. BARBER (term expires 1922).  
 CHARLES L. NOYES (term expires 1923).  
 HERBERT E. BUFFUM (term expires 1923).  
 GILES W. BRYANT (term expires 1924).  
 DAVID H. FULTON (term expires 1924).  
 FRANK M. BARNARD (term expires 1922).  
*Librarian and Secretary*—GEORGE H. EVANS.

**Recreation and Playground Commission.**

CHARLES S. CLARK, Chairman (term expires 1923).  
 GEORGE L. DUDLEY, Secretary (term expires 1922).  
 ERNEST W. BAILEY (term expires 1922).  
 JOHN F. COLQUHOUN (term expires 1922).  
 FRANCES M. WEEKS (term expires 1923).  
 ELIZABETH MONGAN (term expires 1923).  
 Vacancy

**City Clerk.**

JASON M. CARSON  
*Assistant City Clerk*, CLARA B. SNOW

**City Treasurer and Collector of Taxes.**

JOSEPH S. PIKE.

## ANNUAL REPORTS.

**City Messenger.**

FRED E. HANLEY.

**Mayor's Secretary.**

LEON M. CONWELL.

**City Solicitor.**

FRANK W. KAAAN.

**City Auditor.**

HOWARD E. WEMYSS.

**City Engineer.**

ERNEST W. BAILEY.

**Commissioner of Streets.**

ASA B. PRICHARD.

**Commissioner of Public Buildings and Inspector of Buildings.**

GEORGE L. DUDLEY.

**Commissioner of Electric Lines and Lights.**

WALTER I. FULLER.

**Water Commissioner.**

FRANK E. MERRILL.

**Superintendent of Sanitary Department.**

EDGAR T. MAYHEW.

**Clerk of Committees.**

RICHARD A. KEYES.

**Chief of Police.**

CHARLES A. KENDALL.

**Chief Engineer of the Fire Department.**

SEWALL M. RICH.

**City Physician.**

C. CLARKE TOWLE, M. D.

**Inspector of Plumbing.**

DUNCAN C. GREENE.

**Inspector of Milk and Vinegar.**

HERBERT E. BOWMAN.

**Inspector of Animals and Provisions.**

CHARLES M. BERRY.

**Inspector of Petroleum.**

SEWALL M. RICH.

**Sealer of Weights and Measures.**

BENJAMIN S. ABBOTT.

**Fence Viewers.**

CHARLES M. BERRY,  
HOWARD LOWELL,

**Agent of Military and State Aid and Soldiers' Relief and Burial Agent.**

BENJAMIN S. ABBOTT.

**Constables.**

MAURICE F. AHEARN.  
CHARLES M. AUSTIN.  
CHARLES W. F. BENNETT.  
EUGENE A. CARTER.  
WINSLOW W. COFFIN.  
WILLIAM E. COPITHORNE.  
EDMOND P. COTTER  
ALBION B. CROCKER.  
THOMAS DAMEBY.  
CHARLES L. ELLIS.  
ARTHUR L. GILMAN.  
FRED E. HANLEY.

JAMES M. HARMON.  
FRED W. JACKSON.  
HARRY E. JACKSON.  
FRANK B. KARCHER  
CHARLES A. KENDALL.  
MICHAEL T. KENNEDY.  
ELBRIDGE G. LAVENDER.  
EDWARD E. MARSH.  
HARRY L. MOOERS  
HECTOR PALLADINO  
JOHN A. RAY.  
JOHN F. SCANNELL.

CHARLES E. WOODMAN.

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